Exhibit 1

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1
       IN THE UNITED STATES DISTRICT COURT
2
     FOR THE EASTERN DISTRICT OF NEW JERSEY
3
4
     IN RE: JOHNSON &
5
     JOHNSON TALCUM POWDER
     PRODUCTS MARKETING,
     SALES PRACTICES, AND
6
                             : NO. 16-2738
     PRODUCTS LIABILITY
                             : (FLW) (LHG)
7
     LITIGATION
8
     THIS DOCUMENT RELATES
     TO ALL CASES
9
10
                 March 18, 2019
11
12
13
                  Videotaped deposition of
    MARY POULTON, Ph.D., taken pursuant to
    notice, was held at Skadden Arps, Four
14
    Times square, New York, New York,
    beginning at 9:06 a.m., on the above
15
    date, before Michelle L. Gray, a
16
    Registered Professional Reporter,
    Certified Shorthand Reporter, Certified
    Realtime Reporter, and Notary Public.
17
18
19
20
           GOLKOW LITIGATION SERVICES
          877.370.3377 ph 917.591.5672
21
                  deps@golkow.com
22
23
24
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MPagerp:190	
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3 REASLEY ALLEN P.C.	$\begin{bmatrix} \frac{1}{2} & & \text{INDEX} \end{bmatrix}$
BY: P. LEIGH O'DELL, ESQ. BY: JENNIFER K. EMMEL, ESQ. 218 Commerce Street Montgomerry, Alabama 36103 (234) 260 2343	Testimony of: MARY POULTON, Ph.I
5 Montgomery, Alabama 36103 (334) 269-2343	By Ms. O'Dell 13, 359
6 leigh.odell@beasleyallen.com Jennifer.emmel@beasleyallen.com	By Mr. Chachkes 353
7 - and -	7 8
MOTI EV RICE LLC	9
28 Bridgeside Boulevard Mt. Pleasant, South Carolina 29464 (843) 216-9160	EXHIBITS
cscott@motleyrice.com Representing the Plaintiffs	12 13 NO. DESCRIPTION PAGE
ORRICK, HERRINGTON & SUTCLIFFE, LLP BY: ALEX V CHACHKES ESO	Poulton-1 Notice of Deposition 15 Poulton-2 Expert Report of 18
4 51 West 52nd street New York, New York 10019 5 (212) 506-3767 achachkes@orrick.com	Mary Poulton, Ph.D. 2/25/19 Poulton-3 West Windsor Mill 49
- and -	Sampling Calculations And Notes (No Bates)
DRINKER BIDDLE & REATH LLP BY: JACK N. FROST, JR., ESQ.	Poulton-4 Faculty Senate 44
600 Campus Drive Florham Park, New Jersey 07932 (973)549.7106 Jack.frost@dbr.com	Poulton-5 Amended Rule 26 103 Report of Robert
- and -	B. Cook, Ph.D. 1/22/19
4	24
Page 3 APPEARANCES: (Cont'd.)	Page EXHIBITS (Cont'd.)
DRINKER BIDDLE & REATH, LLP	3 (Cont d.)
BY: KATHERINE McBETH, ESQ. One Logan Square, Suite 2000 Philadelphia, Pennsylvania 19103 (215) 988-2706	5 NO. DESCRIPTION PAGE 6 Poulton-6 Rule 26 Expert 103 Report of Mark 7 Krekeler, Ph.D.
katherine.mcbeth@dbr.com Representing the Defendants, Johnson & Johnson entities	Mineral Exploitation Report of Italian
SEYFARTH SHAW, LLP	Mine Samples J&J (Paoley)
BY: THOMAS T. LOCKE, ESQ. 975 F Street, NW Washington, D.C. 20004	(Pooley) FDP0000000495-618 Poulton-8 Department of Mineral Exploitation
(202) 463-2400 tlocke@seyfarth.com Representing the Defendant, PCPC	Report of Italian Mine Samples
Representing the Detendant, I CI C	(Pooley) 1 JNJ000322351-475
ALSO PRESENT:	Poulton-9 Progress Report 143 Battelle Memorial
VIDEOTAPE TECHNICIAN: Henry Marte	Institute 5/9/58 JNJAZ55000000906
6 7 8	Poulton-10 Progress Report 151
9 0 1	Battelle JNJ 000087868-01 Poulton-11 Stefano Memo 4/30/73
2 3	4/30/73 22 JNJ 000270588
4	24

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5 NO. DESCRIPTION PAGE 6 Poulton-12 An Update of a 167 Mortality Study of 7 Talc Miners and Millers In Italy 8 (Coggiola)	5 NO. DESCRIPTION PAGE 6 Poulton-24 The Fundamental 258 Relationship Between 7 Sample Mass and Sampling
9 Poulton-13 The Geology of 180 Ore Deposits (Guilbert & Park)	Variance (Stanley) Poulton-25 Geology and Ore 267 Reserves of the Hammondsville Ore Body IMERYS 436972-97
11 Poulton-14 Letter from Ashton 184 To Caneer 12 8/6/71 JNJAZ55_000006103-5	Poulton-26 Colorado School of 268 Mines Geology and Ore Reserves 13 12/4/70 JNJ 000245002-48
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Eastern Magnesia The Cosmetics Industry	Subject, Hamm Mine Core Drilling IMERYS 238270-77 INDERYS 238270-77 Report 293 For Mineral Resources And Ore Reserves Estimates Argonaut Mine
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22 23 24	Plant 2006-2010 IMERYS 132823
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Poulton-23 Summary & Conclusions 247 CSMRI 4/14/71 (Beers)	Poulton-34 OneMine.org 36 / Document Search
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1	Page 10	Page 12
PREVIOUSLY MARI		
3 EXHIBITS		THE VIDEOURALHER. WE are
4		now on the record. Wry name is
5	4	Tiemy Marie. Tam a Mideographic
⁶ NO. DESCRIPTION P	AGE	with Golkow Lingation Services.
7 Hopkins-28 Demonstrative		roday's date is wrater 10,
From the Hopkins	7	2017. And the time is 7.00 a.m.
8 Examination	8	This videotaped deposition
Spreadsheet	9	is being held at Four Times
9	10	Square, frew Tork, frew Tork, in the
10	11	matter of Talcum Powder
11	12	Litigation.
12	13	The deponent today is Dr.
13	14	Mary Poulton.
14	15	All appearances are noted on
15	16	
16	17	
17	18	-
18	19	-
20	20	
21	21	MARY POULTON, Ph.D.,
22	22	
23	23	•
24	24	
	D 11	P 10
	Page 11	Page 13
DEPOSITION SUPPORT IN		LAAMINATION
DEPOSITION SUPPORT IN		
4	3	DI MB. O DELE.
⁵ Direction to Witness Not to Answe	er 4	Q. Good morning, Dr. 1 outton.
6 PAGE LINE	5	A. Good morning.
None.	6	Q. Wy hame is beign o ben. I
8 Request for Production of Docume	nte 7	represent the plaintiffs in the
9 PAGE LINE	8	multi-district litigation. Would you
16 17	9	produce source year room received
10	10	record?
11 Stipulations	11	A. Mary M. Poulton.
12 PAGE LINE	12	Q. What's your current address?
None.	13	A. 15521 North Howe Road, Mead,
Questions Marked	14	Washington.
14	15	Q. And what's your current
PAGE LINE	16	employment?
15 None.	17	A. University of Arizona,
17	18	co-director for the Lowell Institute For
18	19	Mineral Resources.
19	20	Q. Okay. University of Arizona
20	21	
21	22	_
22 23	23	
24	24	
		11. 1.0, 113 1 50 40 111 40041

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	Page 14		Page 16
1	a week a month and then work remotely the	1	MS. O'DELL: Okay. I'm
2	rest of the time. It's a part-time	2	going to ask questions about what
3	position. I retired from the university	3	was produced yesterday
4	in May 2017.	4	MR. CHACHKES: Okay.
5	Q. Okay. Are you other than	5	MS. O'DELL: at 8:30 last
6	your part-time work with the University	6	night.
7	•	7	BY MS. O'DELL:
8		8	Q. And I also want to ask, have
9	A. Yes. I am a contractor to	9	you brought with you today any invoices?
10	NIOSH through a company called AECOM.	10	A. No invoices today.
	And I am also a co-founder and help run	11	Q. Have you submitted any
12	<u> •</u>	12	invoices in relation to your work on this
13	and do consulting.	13	case?
14	Q. Okay. You mentioned a	14	A. I have.
15	•	15	Q. And how many?
16	A. Yes.	16	A. Two, December and January.
17	Q. Is that is that an	17	MS. O'DELL: And I would
18	acronym?	18	like to request those. And Alex,
19	A. Yes. A-E-C-O-M.	19	if you could get those to us
20	Q. Let me ask you to take a	20	today, because we'd like to
21	look at what I've marked as Exhibit	21	MR. FROST: They were
	Number 1 which is the notice of	22	produced per a notice were a
	deposition for your deposition here	23	response to the notice on
	today. Have you seen this before?	24	Saturday.
	<u> </u>		•
	Page 15		Page 17
1	A. Yes.	1	MS. O'DELL: I got an
2	Q. And what documents have you	2	objection to the notice. But I
3	brought with you in response to the	3	didn't get any documents. That's
_	notice?	4	all I got.
5	(Document marked for	5	MR. FROST: Okay. It should
6	identification as Exhibit	6	have been attached. We'll we
7	Poulton-1.)	7	can rectify it during a it
8	THE WITNESS: I have my	8	should have been attached to the
9	report and my CV in this binder.	9	e-mail. It's two invoices and the
10	BY MS. O'DELL:	10	retention letter that were served
11	Q. Okay. May I see your	11	with a response.
12	binder?	12	MS. O'DELL: Okay.
13	A. Yes.	13	MR. FROST: We can sort that
14	Q. Thank you. Have you brought	14	out during a break, if that's all
15	anything else with you?	15	right. If you don't have it,
16	A. This is what this is what	16	we'll get someone here to print it
17	I have. I don't know what else might be	17	and get it to you soon after.
18	in omacis noic.	18	MS. O'DELL: That would be
19	MR. CHACHKES: We produced	19	fine.
20	something to you, I believe,	20	BY MS. O'DELL:
21	yesterday in response to this	21	Q. Dr. Poulton, is the CV in
22	subpoena. So there's nothing	22	your binder different from the CV that
23	unique being brought to the	23	you produced with your report?
24	deposition.	24	A. In this binder?

PageID: 19t	501, Ph.D.
Page 18	Page 20
¹ Q. Yes.	¹ Q. Were you provided any other
² A. Let me look and see.	² documents produced in the litigation
³ Q. Just for ease, I'm going to	³ other than those cited in Dr. Cook and
⁴ hand you what I'm marking Exhibit 3,	⁴ Dr. Krekeler's reports?
5 which is	5 A. I received their
6 MR. CHACHKES: Exhibit 2.	⁶ depositions. I can look at the list of
⁷ Exhibit 2?	⁷ what I have here.
8 MS. O'DELL: Yes. Thank	8 I requested documents as I
⁹ you.	⁹ was reviewing Dr. Cook and Krekeler's
10 (Document marked for	¹⁰ reports.
identification as Exhibit	Q. What materials did you
Poulton-2.)	12 request?
13 BY MS. O'DELL:	A. I requested information on
Q. Exhibit 2, which is a copy	geologic models, mine plans, drilling
of the report that we received your	results. Clarification on sample
16 report that we received from defendants.	numbers, I believe.
17 It had a CV enclosed in the report.	Q. Were you provided any
18 A. Okay.	documents other than the documents that
Q. And I'm just trying to ask,	were actually cited in Dr. Cook and
²⁰ simply, have there been any changes to	Dr. Krekeler's reports?
²¹ your CV since your report was served in	A. Documents that were in their
²² February?	reports, documents I requested.
²³ A. No.	Q. I'm trying to discern the
Q. Dr. Poulton, what were you	difference in the group of documents
Page 19	Page 21
¹ asked to do in this case?	1 cited in Dr. Cook and Dr. Krekeler's
2 A. I was asked to review the	reports, and documents that you were
3 expert reports by Drs. Cook and Krekeler	describing as ones you requested. I'm
and render an expert opinion on mining	trying to determine if that's a different
and beneficiation as it related to talc	group of documents. And if so, I want to
6 mining for cosmetic products for Johnson	know what you received that was not cited
⁷ & Johnson.	in Dr. Cook or Dr. Krekeler's reports.
8 Q. When were you contacted by	
	8 A. Right. So I had asked for
⁹ Johnson & Johnson counsel?	Ti. Tight. So I had asked for
Johnson & Johnson Counsel.	9 some documents.
A. I believe in December 2018.	9 some documents.
A. I believe in December 2018.	9 some documents. 10 Q. Did you receive additional 11 documents?
A. I believe in December 2018. Q. Who contacted you?	 9 some documents. 10 Q. Did you receive additional 11 documents? 12 A. Yes, I did.
A. I believe in December 2018. Q. Who contacted you? A. I believe it was Alex Chachkes and Jack Frost.	 9 some documents. 10 Q. Did you receive additional 11 documents? 12 A. Yes, I did. 13 Q. How how many?
A. I believe in December 2018. Q. Who contacted you? A. I believe it was Alex Chachkes and Jack Frost. Q. I'm glad to know somebody	 9 some documents. 10 Q. Did you receive additional 11 documents? 12 A. Yes, I did. 13 Q. How how many? 14 A. I don't remember offhand how
A. I believe in December 2018. Q. Who contacted you? A. I believe it was Alex Chachkes and Jack Frost. Q. I'm glad to know somebody	 9 some documents. 10 Q. Did you receive additional 11 documents? 12 A. Yes, I did. 13 Q. How how many? 14 A. I don't remember offhand how
A. I believe in December 2018. Q. Who contacted you? A. I believe it was Alex Chachkes and Jack Frost. Q. I'm glad to know somebody else has difficulty pronouncing Alex's	 9 some documents. 10 Q. Did you receive additional 11 documents? 12 A. Yes, I did. 13 Q. How how many? 14 A. I don't remember offhand how 15 many it was.
A. I believe in December 2018. Q. Who contacted you? A. I believe it was Alex Chachkes and Jack Frost. Q. I'm glad to know somebody else has difficulty pronouncing Alex's name.	9 some documents. 10 Q. Did you receive additional 11 documents? 12 A. Yes, I did. 13 Q. How how many? 14 A. I don't remember offhand how 15 many it was. Q. Can you give me an
A. I believe in December 2018. Q. Who contacted you? A. I believe it was Alex Chachkes and Jack Frost. U. I'm glad to know somebody selse has difficulty pronouncing Alex's name. MR. CHACHKES: You wouldn't	9 some documents. 10 Q. Did you receive additional 11 documents? 12 A. Yes, I did. 13 Q. How how many? 14 A. I don't remember offhand how 15 many it was. 16 Q. Can you give me an 17 estimation?
A. I believe in December 2018. Q. Who contacted you? A. I believe it was Alex Chachkes and Jack Frost. Q. I'm glad to know somebody else has difficulty pronouncing Alex's name. MR. CHACHKES: You wouldn't be alone.	 9 some documents. 10 Q. Did you receive additional 11 documents? 12 A. Yes, I did. 13 Q. How how many? 14 A. I don't remember offhand how 15 many it was. 16 Q. Can you give me an 17 estimation? 18 A. I would estimate somewhere
A. I believe in December 2018. Q. Who contacted you? A. I believe it was Alex Chachkes and Jack Frost. Q. I'm glad to know somebody else has difficulty pronouncing Alex's name. MR. CHACHKES: You wouldn't be alone. BY MS. O'DELL:	 9 some documents. 10 Q. Did you receive additional 11 documents? 12 A. Yes, I did. 13 Q. How how many? 14 A. I don't remember offhand how 15 many it was. 16 Q. Can you give me an 17 estimation? 18 A. I would estimate somewhere 19 between six and a dozen perhaps.
A. I believe in December 2018. Q. Who contacted you? A. I believe it was Alex Chachkes and Jack Frost. Q. I'm glad to know somebody selse has difficulty pronouncing Alex's name. MR. CHACHKES: You wouldn't be alone. BY MS. O'DELL: Q. What materials were you	9 some documents. 10 Q. Did you receive additional 11 documents? 12 A. Yes, I did. 13 Q. How how many? 14 A. I don't remember offhand how 15 many it was. 16 Q. Can you give me an 17 estimation? 18 A. I would estimate somewhere 19 between six and a dozen perhaps. 20 Q. Were you provided access to
A. I believe in December 2018. Q. Who contacted you? A. I believe it was Alex Chachkes and Jack Frost. Q. I'm glad to know somebody selse has difficulty pronouncing Alex's mame. MR. CHACHKES: You wouldn't be alone. MR. O'DELL: Q. What materials were you provided by Johnson & Johnson counsel?	9 some documents. 10 Q. Did you receive additional 11 documents? 12 A. Yes, I did. 13 Q. How how many? 14 A. I don't remember offhand how 15 many it was. 16 Q. Can you give me an 17 estimation? 18 A. I would estimate somewhere 19 between six and a dozen perhaps. 20 Q. Were you provided access to 21 a database of documents where you could
A. I believe in December 2018. Q. Who contacted you? A. I believe it was Alex Chachkes and Jack Frost. Q. I'm glad to know somebody lese has difficulty pronouncing Alex's name. MR. CHACHKES: You wouldn't be alone. BY MS. O'DELL: Q. What materials were you provided by Johnson & Johnson counsel? A. The expert reports from	9 some documents. 10 Q. Did you receive additional 11 documents? 12 A. Yes, I did. 13 Q. How how many? 14 A. I don't remember offhand how 15 many it was. 16 Q. Can you give me an 17 estimation? 18 A. I would estimate somewhere 19 between six and a dozen perhaps. 20 Q. Were you provided access to 21 a database of documents where you could 22 perform your own searches?

Page 22 Page 24 ¹ specific six to 12 documents that were constructed the areas where I felt that ² they were incorrect. ² provided to you at your request? Q. Is the methodology that you A. I would have to go through ⁴ employed in critiquing Dr. Cook and ⁴ my report and try and tease those out. Q. If, as you go through -- as ⁵ Dr. Krekeler's reports methodology that's ⁶ been published in the scientific you go through -- strike that and start ⁷ literature? again. 8 In walking through your A. In terms of forming a ⁹ report, is it your belief that you could hypothesis and testing it, yes. 10 identify those documents based on the Q. And can you name a reference references in your report? that would support that type of analysis? 12 A. I believe nearly any A. Not easily. textbook on research methods would cite 13 Q. Could you do that? A. Could I do it? how to form a hypothesis and -- and test 15 Yes. it. O. 16 16 A. Yes, I could. It would --Q. What -- what was your hypothesis in this particular -- in the it would take some time. 18 Q. Hold that thought. We may task that you were asked to perform? ¹⁹ do that. A. So my hypothesis was that 20 the conclusions reached by Drs. Cook and So let me ask this question. You were -- you were provided Dr. Cook Krekeler were correct. and Dr. Krekeler's reports. O. And in terms of the process 23 What were you asked to do in ²³ that you undertook, could that process be relation to those two documents? replicated by someone else? Page 23 Page 25 A. To -- to their expert A. Yes. ² reports? I was asked to review them, see O. How? A. They -- if they have a ³ if I agreed with what they did, what they found, and then if not, why. And what ⁴ background in mining processes and -- and information were they missing, what ⁵ beneficiation and geology, they could ⁶ analyses did I disagree with. 6 look at the body of knowledge about how So, basically, looking at you conduct mining, how you make mine 8 mining and beneficiation practices and -plans, how you process ore, and they ⁹ and those specific parts of their ⁹ could compare that to the conclusions 10 reports. ¹⁰ that Drs. Cook and Krekeler reached from 11 Q. In essence, you were asked ¹¹ the same documents that I looked at. to critique their expert reports, true? Q. In regard to your -- your 13 background, is it fair to say that your A. Yes. 14 Q. And what methodology did you 14 focus has been on mine safety and -- and use in order to perform that critique? sort of the mine safety focus of A. I started with the geological engineering? assumption that they were correct in A. In my current stage of my their findings, and then corroborated career, that's true. I've had other their statements with what I saw in 19 focus areas throughout the past 30-plus documents. And if they said information vears. was missing, then I asked for that 21 Q. You are not an exploration information or looked for it within the geologist, true? documents they had. A. I've done quite a bit of 24 work in exploration geology, but I am an And then basically

	n, Ph	.D.
Mpage 15.2190503		Page 28
engineer, not a geologist by degree.	regardin	ng tale with a specific focus of
Q. You are not a certified	_	
3 professional engineer, true?	Α.	That's correct.
4 A. I have my EIT.	O.	And you have not authored a
O. And what is an EIT?		viewed publication regarding the
6 A. An EIT is the initial step	-	of Vermont, correct?
7 for professional certification.		Correct.
Q. So my question is, you are	71.	You have not authored a
9 not a certified professional engineer,	Q.	viewed publication regarding the
true?	_	
		of Italy, correct?
That's correct.	71.	Correct.
Q. Tou are not a certified	Q.	And similarly, you have not
professional geologist, true?		d a peer-reviewed publication
(14) A. True.		ig the geology of talc deposits in
Q. Turning your attention	Cililia, c	
toward what I've marked as Exhibit 2,		Correct.
¹⁷ your expert report. And about, I would	Q.	Have you ever visited a talc
18 say, half the way into that document is		
¹⁹ exhibit A which is a copy of your CV.	A.	Yes.
20 As I understand our 20	Q.	Where?
21 discussion a few minutes ago, that's an	A.	In California.
²² up-to-date CV?	Q.	And what mine?
A. It has not changed since I	A.	I don't remember. It was in
24 submitted it.	the 1980	Os.
D 27		D 20
Page 27		Page 29
Q. Okay. And you have not	<u>~·</u>	What area?
authored a peer-reviewed publication on		
³ phyllosilicates, true?	71.	It that one would have
	been in	Southern California, Death Valley
4 A. True.	been in kind of	Southern California, Death Valley area.
5 Q. You have not authored a	been in kind of a Q.	Southern California, Death Valley area. That mine is not used to
5 Q. You have not authored a 6 peer-reviewed publication regarding tale, 6	been in kind of a Q. source of	Southern California, Death Valley area. That mine is not used to cosmetic talc, true?
5 Q. You have not authored a 6 peer-reviewed publication regarding talc, 7 true? 5	been in kind of a Q. source of A.	Southern California, Death Valley area. That mine is not used to cosmetic talc, true? I believe that's true.
5 Q. You have not authored a 6 peer-reviewed publication regarding tale, 7 true? 7 A. Let me look at my list.	been in kind of a Q. source of A. Q.	Southern California, Death Valley area. That mine is not used to cosmetic talc, true? I believe that's true. It is it contains high
5 Q. You have not authored a 6 peer-reviewed publication regarding talc, 7 true? 5	been in kind of a Q. source of A. Q.	Southern California, Death Valley area. That mine is not used to cosmetic talc, true? I believe that's true.
5 Q. You have not authored a 6 peer-reviewed publication regarding tale, 7 true? 7 A. Let me look at my list.	been in kind of a Q. source of A. Q. levels of	Southern California, Death Valley area. That mine is not used to cosmetic talc, true? I believe that's true. It is it contains high
5 Q. You have not authored a 6 peer-reviewed publication regarding talc, 7 true? 7 true? 8 A. Let me look at my list. 9 I I covered talc in a software program 9	been in kind of a Q. source of A. Q. levels of A.	Southern California, Death Valley area. That mine is not used to cosmetic talc, true? I believe that's true. It is it contains high f asbestos, true?
5 Q. You have not authored a 6 peer-reviewed publication regarding talc, 7 true? 7 true? 8 A. Let me look at my list. 9 I I covered talc in a software program 10 called Minerals Where and Why. And I	been in kind of a Q. source of A. Q. levels of A. Q.	Southern California, Death Valley area. That mine is not used to cosmetic talc, true? I believe that's true. It is it contains high fasbestos, true? What? The mine that you visited in
Q. You have not authored a 6 peer-reviewed publication regarding talc, 7 true? 7 A. Let me look at my list. 9 I I covered talc in a software program 10 called Minerals Where and Why. And I 11 just need to see if it's on the	been in kind of a Q. source of A. Q. levels of A. Q. Death V	Southern California, Death Valley area. That mine is not used to cosmetic talc, true? I believe that's true. It is it contains high fasbestos, true? What? The mine that you visited in
Q. You have not authored a 6 peer-reviewed publication regarding talc, 7 true? 7 A. Let me look at my list. 9 I I covered talc in a software program 10 called Minerals Where and Why. And I 11 just need to see if it's on the 12 peer-reviewed list or somewhere else. 13 So Publication 28 referee	been in kind of a Q. source of A. Q. levels of A. Q. Death V. A.	Southern California, Death Valley area. That mine is not used to cosmetic talc, true? I believe that's true. It is it contains high f asbestos, true? What? The mine that you visited in Valley?
Q. You have not authored a 6 peer-reviewed publication regarding talc, 7 true? 7 A. Let me look at my list. 9 I I covered talc in a software program 10 called Minerals Where and Why. And I 11 just need to see if it's on the 12 peer-reviewed list or somewhere else. 13 So Publication 28 referee	been in kind of a Q. source of A. Q. levels of A. Q. Death V. A. Q.	Southern California, Death Valley area. That mine is not used to cosmetic talc, true? I believe that's true. It is it contains high f asbestos, true? What? The mine that you visited in Valley? I don't know that.
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1 the talc mines in Vermont, correct?	¹ of artificial intelligence. They're the
A. Correct.	² basis of photo recognition on your smart
And that would be true also	³ phones and Alexa and Siri and all of
4 of any talc mines in Italy or China?	⁴ those technologies that are AI now.
5 A. Correct.	⁵ Q. All the technologies that
⁶ Q. Have you done any research,	6 are invading our life
⁷ published or nonpublished, regarding	⁷ A. Exactly.
8 asbestos that's not related to the	8 Q and listening
9 litigation?	9 A. Yes.
10 A. Could you repeat that	Q at various times.
11 question for me?	Let me switch gears. You
Q. Sure. Have you done any	¹² are not a physician?
13 research let me step back and say it	¹³ A. I am not a physician.
this way. It will be easier, sorry.	Q. You're not an expert on the
Have you have you	15 health effects of talcum powder, true?
authored any peer-reviewed publications	16 A. Correct.
regarding asbestos?	Q. You're not an expert on
A. No, I have not published	18 health effects of asbestos, correct?
peer-reviewed papers on asbestos.	19 A. Correct.
Q. Have you done any research	Q. You're not an expert on the
specifically regarding asbestos other	health effects of heavy metals?
than what you've done in this litigation?	22 A. Correct.
A. We have had some projects in	Q. You are not an
our department regarding asbestos	
1 - Our accomment regarding aspesies	
cur department regulating absolutes	opiaenneregis
Page 31	
Page 31 1 associated with metal ores. I wasn't the lead person on it. I was peripheral to	Page 33
Page 31 1 associated with metal ores. I wasn't the 2 lead person on it. I was peripheral to 3 those studies.	Page 33 A. Correct.
Page 31 1 associated with metal ores. I wasn't the lead person on it. I was peripheral to	Page 33 A. Correct. Q. You're not a toxicologist?
Page 31 1 associated with metal ores. I wasn't the 2 lead person on it. I was peripheral to 3 those studies.	Page 33 A. Correct. Q. You're not a toxicologist? A. Correct.
Page 31 associated with metal ores. I wasn't the lead person on it. I was peripheral to those studies. Q. It was not a focus of your	Page 33 A. Correct. Q. You're not a toxicologist? A. Correct. Q. You're not an industrial
Page 31 1 associated with metal ores. I wasn't the 2 lead person on it. I was peripheral to 3 those studies. 4 Q. It was not a focus of your 5 particular research?	Page 33 A. Correct. Q. You're not a toxicologist? A. Correct. Q. You're not an industrial hygienist?
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Page 31 associated with metal ores. I wasn't the lead person on it. I was peripheral to those studies. Q. It was not a focus of your particular research? A. It was not my focus. Q. Is it fair to say that most of your work in recent years has focused on water preservation and health issues as it relates to geology? A. In recent years that has lead to been one of my emphasis areas. Q. I notice on your CV there's a company that you're involved with called NOAH?	Page 33 1 A. Correct. 2 Q. You're not a toxicologist? 3 A. Correct. 4 Q. You're not an industrial 5 hygienist? 6 A. Correct. 7 Q. Would it be fair to say that 8 you will defer to medical experts, 9 whether the genital use of talc can cause 10 cancer, true? 11 A. Correct. 12 Q. In regard to asbestos you 13 are not an expert in the identification 14 of asbestos in talc ore true? 15 A. Could you clarify what you
Page 31 1 associated with metal ores. I wasn't the 2 lead person on it. I was peripheral to 3 those studies. 4 Q. It was not a focus of your 5 particular research? 6 A. It was not my focus. 7 Q. Is it fair to say that most 8 of your work in recent years has focused 9 on water preservation and health issues 10 as it relates to geology? 11 A. In recent years that has 12 been one of my emphasis areas. 13 Q. I notice on your CV there's 14 a company that you're involved with 15 called NOAH? 16 A. NOAH.	Page 33 A. Correct. Q. You're not a toxicologist? A. Correct. Q. You're not an industrial hygienist? A. Correct. Q. Would it be fair to say that you will defer to medical experts, whether the genital use of talc can cause cancer, true? A. Correct. Q. In regard to asbestos you are not an expert in the identification are not an expert in the identification A. Could you clarify what you mean by identification?
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Page 31 1 associated with metal ores. I wasn't the 2 lead person on it. I was peripheral to 3 those studies. 4 Q. It was not a focus of your 5 particular research? 6 A. It was not my focus. 7 Q. Is it fair to say that most 8 of your work in recent years has focused 9 on water preservation and health issues 10 as it relates to geology? 11 A. In recent years that has 12 been one of my emphasis areas. 13 Q. I notice on your CV there's 14 a company that you're involved with 15 called NOAH? 16 A. NOAH. 17 Q. What is NOAH? 18 A. NOAH stands for neural 19 optimization applied hydrology. We use	Page 33 A. Correct. Q. You're not a toxicologist? A. Correct. Q. You're not an industrial hygienist? A. Correct. Q. Would it be fair to say that you will defer to medical experts, whether the genital use of talc can cause cancer, true? A. Correct. Q. In regard to asbestos you are not an expert in the identification are not an expert in the identification A. Could you clarify what you mean by identification? Q. Have you examined cosmetic talc for the presence of asbestos using XRD?
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	Page 34 Page 36
Q. Have you examined co	osmetic 1 your deposition taken before?
² talc for the presence of asbestos	
3 TEM?	³ Q. One of the things that will
4 A. No.	4 help the court reporter and just all of
Q. Have you ever tested	5 us, if you'll wait for me to finish
6 cosmetic talc in any way?	⁶ A. I'm sorry.
7 A. No.	⁷ Q before you answer. And
Q. Do you have any expe	
9 transmission electron microsco	
A. No.	10 recognize, and sometimes I talk slow. So
Q. Do you have any expe	
using polarized light microscop	
purposes of identifying contam	
an ore?	as a consultant or otherwise employed by
A. Repeat the question for	or me. 15 a mine company to develop a drill core
16 I kind of lost my train of though	ht. program for purposes of evaluating an ore
Q. Do you use let me j	ust deposit?
ask a different question.	A. Could you repeat that.
19 A. Okay.	Q. Outside the context of your
Q. Maybe that will addre	work as an academic, have you been hired
(issue.)	21 as a consultant or an employee of a
Do you use polarized li	ight 22 mining company to design a drill core
microscopy as a routine part of	your work 23 program?
as a geological engineer?	A. Pittsburgh and Midway Coal
	Page 35 Page 37
1 A. No.	¹ Mining Company.
Q. Do you plan to offer a	
opinions in this case regarding	
appropriate technique for the us	Q. And what was your role with
⁵ examining cosmetic talc for the	e presence Pittsburgh Coal and I'm sorry. What's
6 of asbestos?	6 the name of the company again?
7 A. Maybe repeat the ques	A. Pittsburgh and Midway.
8 for me again.	8 Q. Okay.
Q. Do you have any opin	ions So I was working on
that you plan to provide in this	
that relate in any way to the app	propriate plan. And we had to lay out the drilling
technique for use in analyzing of	
talc for the presence of asbestos	
A. Beyond the technique	
are identified in things like ISO	
standards. I mean, just basicall	
able to say that those are the ide	
techniques.	the company?
Q. But you have no expense	
the techniques used to examine	
A. In using those techniq	
correct.	A. That was roughly May to
Q. Okay. I didn't ask you	
²⁴ before, Dr. Poulton. But have y	you had Q. And that was a summer job

Page 38 Page 40 1 A. Yes. ¹ Lowell Institute For Mineral Resources at 2 ² the University of Arizona. Q. -- fair? 3 And that was a summer job A. So the Lowell Institute is a ⁴ prior to your getting your master's ⁴ large interdisciplinary research degree or your Ph.D.? ⁵ institute within the University of A. My bachelor's degree. ⁶ Arizona. We bring together faculty from ⁷ many different disciplines to work on a 7 Q. Yeah. So this was a summer 8 job while you were getting your 8 broad range of mineral resources, issues, ⁹ bachelor's degree? from grass roots, exploration and ¹⁰ fundamental geosciences through mining, 10 A. Yes. 11 health and safety, reclamation, 11 Q. And that would be the last geotechnical engineering, law. 12 time that you had a job that involved ¹³ drill core, drilling program, logging And so we do research. We cores, et cetera? ¹⁴ do outreach. We do professional and continuing education. We do A. So we did those kind of ¹⁶ interdisciplinary education. We do ¹⁶ activities within the context of our technology transfer. Basically, curriculum with graduate students. everything from the beginning of a Q. I'm asking in regard to 19 mineral resources project through 19 consulting in a situation outside of ²⁰ ultimate closure and community relations, academic. along with K-12 and public outreach. 21 A. No. Q. Define geologic engineering. 22 Q. To make sure the question is 23 A. So geological engineering is ²³ clear. The last time that you were hired an accredited engineering degree. It ²⁴ in any capacity to develop a drill Page 39 Page 41 ¹ program, participate in a core drill 1 combines geologic knowledge with program or log cores was in 1984 when you ² engineering. And depending on the ³ university, it's usually associated with ³ were a student? 4 mining engineering or in some cases civil A. Outside of academia, yes. ⁵ engineering, or in some cases geology. O. Yes. At the University of 6 A. Yes. Q. Have you been hired by a ⁷ Arizona, it was associated with mining mining company to perform minerologic ⁸ engineering. So the geological ⁹ engineering was essentially mining exploration for purposes of economic engineering with extra geology and some exploitation? extra civil engineering. 11 A. Outside of academia? Q. And you were department head Q. Yes. of mining and geological engineering at A. I don't believe so. 13 the University of Arizona for some period Q. Have you ever designed a mine plan for a talc mine? 15 of time? 15 16 16 No. Α. A. Yes. 17 17 Q. Outside of academia, would Q. And that program was it be fair to say that you have not 18 accredited? designed a mine plan for any type of 19 A. Yes. 20 mine? Q. And is the accreditation 21 Outside of academia? ²¹ board for engineering and technology A. 22 the -- the organization that provides 22 Q. Yes. ²³ accreditation for the University of 23 A. Correct. 24 ²⁴ Arizona's department? Describe your work with the

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	Page 42	Page 44
¹ A. ABET. Ye	es. 1	A. I don't remember that
² Q. ABET.	2	happening.
³ Did ABET a		
⁴ department in 2004-	-	advised geological engineering students,
1		
	ve to think about 5	i de .
⁶ what years, let's see.	2014 no, I'm	A. There were other situations
⁷ sorry. 2016. 2010.	7	related to personnel in the department
8 Probably 20	04 or 8	for geological engineering. So it's
⁹ thereabouts. I'd have	e to to search my	it's not a true statement that I was not
¹⁰ memory as to exact of	dates.	allowed to advise students. There
-		were there were some personnel issues
12 review of departmen	9	-
13 them for purposes of	9 9	
1 1	-	· · · · · · · · · · · · · · · · · · ·
		longer advised geological students, true?
-	you were head of	71. I did not.
the department in 20		Q. Let me snow you what I m
¹⁷ A. Yes.	17	marking as Exhibit 4.
¹⁸ Q. Did ABET	find that you had	(Document marked for
¹⁹ approved students fo	or graduation that had 19	identification as Exhibit
20 not completed the ap	_	Poulton-4.)
I .	some controversy 21	
²² over how credits wer	•	
²³ particular courses the		
Q. And, in fac	- 1	meeting in March 3, 2008.
Q. Alid, ili lac	t, ABET	incernig in March 3, 2006.
	Page 43	Page 45
¹ threatened to not acc	<u> </u>	
¹ threatened to not acc ² based on your appro	eredit the department 1	Do you see that?
² based on your appro	eredit the department val of students for 2	Do you see that? A. Where are we looking? Okay.
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	Page 46		Page 48
1	the members of the faculty senate dated	1	MR. CHACHKES: Actually,
2	March 1st, 2008. Have you seen this	2	just let the witness finish the
3	before?	3	answer, please.
4	A. I would have to search my	4	BY MS. O'DELL:
5	memory. I can tell you there was a	5	Q. And if you would just focus
6	serious personnel issue with	6	on my question
	Dr. Sternberg that I am not sure how much	7	MR. CHACHKES: Yeah, but
	I am allowed to say here.	8	still, even if let the witness
9	Q. Okay.	9	finish her answer, please.
10	A. But it is very germane to	10	BY MS. O'DELL:
11	the substance of this.	11	Q. I'll let you certainly
12	Q. And looking at Page 2 under	12	explain your answer. But if you if just
13	Heading 3, Dr. Sternberg writes, "In the	1	listen to my question, Dr. Poulton.
	2004-2005 accreditation cycle, the ABET	14	You no longer advised
	visitor for geological engineering found	15	geological engineering students following
16	that Dr. Poulton, department head of	16	this 2004-2005 time period, true?
17	mining and geological engineering, had	17	A. That's not a true/false
18	approved students for graduation without	1	question that I can answer.
	their meeting the required number of	19	Q. Is that correct?
20	engineering credits. Since this was	20	A. It is correct I was not
	viewed as a fatal flaw, we were told that	21	advising students for that program.
	we would lose accreditation. After	22	Q. Okay.
23	extensive negotiations, the ABET	23	A. But again, as part of a
24	committee decided that they would allow	24	personnel issue.
	Page 47		Page 49
	this history to pass, if and only if	1	Q. As a part of the faculty
	this history to pass, if and only if Dr. Poulton was no longer allowed to		Q. As a part of the faculty senate meeting in in March of of
3	this history to pass, if and only if Dr. Poulton was no longer allowed to advise geological engineering students.	2 3	Q. As a part of the faculty senate meeting in in March of of 2008, did you submit a memorandum or
2 3 4	this history to pass, if and only if Dr. Poulton was no longer allowed to advise geological engineering students. Once this problem was overcome, the final	2 3 4	Q. As a part of the faculty senate meeting in in March of of 2008, did you submit a memorandum or letter disputing Dr. Sternberg's
2 3 4 5	this history to pass, if and only if Dr. Poulton was no longer allowed to advise geological engineering students. Once this problem was overcome, the final ABET report provided a strong	2 3 4 5	Q. As a part of the faculty senate meeting in in March of of 2008, did you submit a memorandum or letter disputing Dr. Sternberg's statements in this memorandum?
2 3 4 5 6	this history to pass, if and only if Dr. Poulton was no longer allowed to advise geological engineering students. Once this problem was overcome, the final ABET report provided a strong recommendation for our program."	2 3 4 5	Q. As a part of the faculty senate meeting in in March of of 2008, did you submit a memorandum or letter disputing Dr. Sternberg's statements in this memorandum? A. I don't remember.
2 3 4 5 6 7	this history to pass, if and only if Dr. Poulton was no longer allowed to advise geological engineering students. Once this problem was overcome, the final ABET report provided a strong recommendation for our program." Did I read that correctly?	2 3 4 5 6 7	Q. As a part of the faculty senate meeting in in March of of 2008, did you submit a memorandum or letter disputing Dr. Sternberg's statements in this memorandum? A. I don't remember. Q. You do not recall doing
2 3 4 5 6 7 8	this history to pass, if and only if Dr. Poulton was no longer allowed to advise geological engineering students. Once this problem was overcome, the final ABET report provided a strong recommendation for our program." Did I read that correctly? A. The you read that	2 3 4 5 6 7 8	Q. As a part of the faculty senate meeting in in March of of 2008, did you submit a memorandum or letter disputing Dr. Sternberg's statements in this memorandum? A. I don't remember. Q. You do not recall doing that, correct?
2 3 4 5 6 7 8	this history to pass, if and only if Dr. Poulton was no longer allowed to advise geological engineering students. Once this problem was overcome, the final ABET report provided a strong recommendation for our program." Did I read that correctly? A. The you read that correctly.	2 3 4 5 6 7 8	Q. As a part of the faculty senate meeting in in March of of 2008, did you submit a memorandum or letter disputing Dr. Sternberg's statements in this memorandum? A. I don't remember. Q. You do not recall doing that, correct? A. I I just don't remember.
2 3 4 5 6 7 8 9	this history to pass, if and only if Dr. Poulton was no longer allowed to advise geological engineering students. Once this problem was overcome, the final ABET report provided a strong recommendation for our program." Did I read that correctly? A. The you read that correctly. Q. And it's fair to say that	2 3 4 5 6 7 8 9	Q. As a part of the faculty senate meeting in in March of of 2008, did you submit a memorandum or letter disputing Dr. Sternberg's statements in this memorandum? A. I don't remember. Q. You do not recall doing that, correct? A. I I just don't remember. (Document marked for
2 3 4 5 6 7 8 9 10	this history to pass, if and only if Dr. Poulton was no longer allowed to advise geological engineering students. Once this problem was overcome, the final ABET report provided a strong recommendation for our program." Did I read that correctly? A. The you read that correctly. Q. And it's fair to say that the ABET agreed to accredit Arizona's	2 3 4 5 6 7 8 9 10	Q. As a part of the faculty senate meeting in in March of of 2008, did you submit a memorandum or letter disputing Dr. Sternberg's statements in this memorandum? A. I don't remember. Q. You do not recall doing that, correct? A. I I just don't remember. (Document marked for identification as Exhibit
2 3 4 5 6 7 8 9 10	this history to pass, if and only if Dr. Poulton was no longer allowed to advise geological engineering students. Once this problem was overcome, the final ABET report provided a strong recommendation for our program." Did I read that correctly? A. The you read that correctly. Q. And it's fair to say that the ABET agreed to accredit Arizona's geological engineering program based on	2 3 4 5 6 7 8 9 10 11	Q. As a part of the faculty senate meeting in in March of of 2008, did you submit a memorandum or letter disputing Dr. Sternberg's statements in this memorandum? A. I don't remember. Q. You do not recall doing that, correct? A. I I just don't remember. (Document marked for identification as Exhibit Poulton-3.)
2 3 4 5 6 7 8 9 10 11 12 13	this history to pass, if and only if Dr. Poulton was no longer allowed to advise geological engineering students. Once this problem was overcome, the final ABET report provided a strong recommendation for our program." Did I read that correctly? A. The you read that correctly. Q. And it's fair to say that the ABET agreed to accredit Arizona's geological engineering program based on the decision that you would be prohibited	2 3 4 5 6 7 8 9 10 11 12 13	Q. As a part of the faculty senate meeting in in March of of 2008, did you submit a memorandum or letter disputing Dr. Sternberg's statements in this memorandum? A. I don't remember. Q. You do not recall doing that, correct? A. I I just don't remember. (Document marked for identification as Exhibit Poulton-3.) BY MS. O'DELL:
2 3 4 5 6 7 8 9 10 11 12 13	this history to pass, if and only if Dr. Poulton was no longer allowed to advise geological engineering students. Once this problem was overcome, the final ABET report provided a strong recommendation for our program." Did I read that correctly? A. The you read that correctly. Q. And it's fair to say that the ABET agreed to accredit Arizona's geological engineering program based on the decision that you would be prohibited from advising students, true?	2 3 4 5 6 7 8 9 10 11 12 13	Q. As a part of the faculty senate meeting in in March of of 2008, did you submit a memorandum or letter disputing Dr. Sternberg's statements in this memorandum? A. I don't remember. Q. You do not recall doing that, correct? A. I I just don't remember. (Document marked for identification as Exhibit Poulton-3.) BY MS. O'DELL: Q. Let me ask you to take a
2 3 4 5 6 7 8 9 10 11 12 13 14	this history to pass, if and only if Dr. Poulton was no longer allowed to advise geological engineering students. Once this problem was overcome, the final ABET report provided a strong recommendation for our program." Did I read that correctly? A. The you read that correctly. Q. And it's fair to say that the ABET agreed to accredit Arizona's geological engineering program based on the decision that you would be prohibited from advising students, true? A. I strongly disagree with	2 3 4 5 6 7 8 9 10 11 12 13 14	Q. As a part of the faculty senate meeting in in March of of 2008, did you submit a memorandum or letter disputing Dr. Sternberg's statements in this memorandum? A. I don't remember. Q. You do not recall doing that, correct? A. I I just don't remember. (Document marked for identification as Exhibit Poulton-3.) BY MS. O'DELL: Q. Let me ask you to take a look at what I'm marking as previously
2 3 4 5 6 7 8 9 10 11 12 13	this history to pass, if and only if Dr. Poulton was no longer allowed to advise geological engineering students. Once this problem was overcome, the final ABET report provided a strong recommendation for our program." Did I read that correctly? A. The you read that correctly. Q. And it's fair to say that the ABET agreed to accredit Arizona's geological engineering program based on the decision that you would be prohibited from advising students, true? A. I strongly disagree with this paragraph as being true.	2 3 4 5 6 7 8 9 10 11 12 13	Q. As a part of the faculty senate meeting in in March of of 2008, did you submit a memorandum or letter disputing Dr. Sternberg's statements in this memorandum? A. I don't remember. Q. You do not recall doing that, correct? A. I I just don't remember. (Document marked for identification as Exhibit Poulton-3.) BY MS. O'DELL: Q. Let me ask you to take a look at what I'm marking as previously marking as Exhibit 3.
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Page 50		Page 52
·		A. Correct.
• 1	2	Q. And when you're talking
And so, on the basis of	3	about the mill, what mill are you
of that late disclosure of the	4	referring to?
supplemental report we'll move to	5	A. West Windsor.
hold the deposition open until	6	Q. And what's the methodology
1 1	7	that you used to perform this analysis?
1 11 7	8	A. I looked at the data that
	9	was in their annual mine reports, their
•	10	mine plans.
•	11	Q. For what year?
• •	12	A. It was a combination of data
	13	from 1998 and 2002 reports.
•	1	-
		Q. What was the purpose of
ϵ		doing this analysis?
· · · · · · · · · · · · · · · · · · ·		A. I wanted to just clarify in
=		my mind what the rates of production
• • • • • • • • • • • • • • • • • • • •		were, and if I converted a continuous
		process to a batch process, how many
•		blocks of ore were being processed in a
11 1	21	given amount of time and how did that
	22	relate to how long it might take to fill
supplemental analysis. Well	23	a silo with finished talc.
MR. CHACHKES: It is not.	24	Q. It's fair to say that this
Page 51		Page 53
Why don't you ask the question.	1	calculation was based on certain
• •	2	assumptions that you made rather than a
ask the question.	3	specific analysis of what occurred during
-	4	the operation at West Windsor?
•	5	A. So I took actual data, but I
	6	had to make some assumptions. For
- · · · · · · · · · · · · · · · · · · ·		instance, I didn't account for stripping
•		ratio of 2 to 1, which is used. I didn't
		account for bulking factor as the silo was filled.
· ·		
kinds of calculations, looking at mining		I had to convert a
throughputs and potential material that's	12	continuous process to a batch process for
being sampled from the mine through the	13	resonance time.
being sampled from the mine through the mill.	13	resonance time. Q. You were not able to account
being sampled from the mine through the mill. A lot of assumptions. I	13	resonance time. Q. You were not able to account for certain ways the mine manager may
being sampled from the mine through the mill. A lot of assumptions. I pulled data from multiple mine plans to	13	resonance time. Q. You were not able to account for certain ways the mine manager may have directed personnel to fill silos
being sampled from the mine through the mill. A lot of assumptions. I	13 14 15	resonance time. Q. You were not able to account for certain ways the mine manager may
being sampled from the mine through the mill. A lot of assumptions. I pulled data from multiple mine plans to	13 14 15 16 17	resonance time. Q. You were not able to account for certain ways the mine manager may have directed personnel to fill silos
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being sampled from the mine through the mill. A lot of assumptions. I pulled data from multiple mine plans to get the variables. But I was just basically looking at rate of production and	13 14 15 16 17 18	resonance time. Q. You were not able to account for certain ways the mine manager may have directed personnel to fill silos that are not reflected in the documents, true?
being sampled from the mine through the mill. A lot of assumptions. I pulled data from multiple mine plans to get the variables. But I was just basically looking at rate of production and throughput through the mill.	13 14 15 16 17 18 19	resonance time. Q. You were not able to account for certain ways the mine manager may have directed personnel to fill silos that are not reflected in the documents, true? A. These are based on reported numbers.
being sampled from the mine through the mill. A lot of assumptions. I pulled data from multiple mine plans to get the variables. But I was just basically looking at rate of production and throughput through the mill. Q. And an analysis of this type	13 14 15 16 17 18 19 20 21	resonance time. Q. You were not able to account for certain ways the mine manager may have directed personnel to fill silos that are not reflected in the documents, true? A. These are based on reported numbers. Q. And based on assumptions
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	opportunity to review this analysis prior to the deposition. And so, on the basis of of that late disclosure of the supplemental report we'll move to hold the deposition open until we've had adequate opportunity to analyze it. MR. CHACHKES: Okay. Obviously we disagree and and I think you have produced many things with even less notice. So it's an odd objection, but noted. MS. O'DELL: I don't agree with with that, but MR. CHACHKES: Yeah, and by the way, there's no supplemental report. You said supplemental report. This is not a supplemental report. MS. O'DELL: This is a supplemental analysis. Well MR. CHACHKES: It is not. Page 51 Why don't you ask the question. MS. O'DELL: I'm about to ask the question. MS. O'DELL: Q. Dr. Poulton, would you please describe what I've marked as Exhibit 3? A. It's a simple spreadsheet that I put together, back-of-the-envelope	opportunity to review this analysis prior to the deposition. And so, on the basis of of that late disclosure of the supplemental report we'll move to hold the deposition open until we've had adequate opportunity to analyze it. MR. CHACHKES: Okay. Obviously we disagree and and I think you have produced many things with even less notice. So it's an odd objection, but noted. MS. O'DELL: I don't agree with with that, but MR. CHACHKES: Yeah, and by the way, there's no supplemental report. You said supplemental report. This is not a supplemental report. MS. O'DELL: This is a supplemental analysis. Well MR. CHACHKES: It is not. Page 51 Why don't you ask the question. MS. O'DELL: I'm about to ask the question. MR. CHACHKES: Okay. BY MS. O'DELL: Q. Dr. Poulton, would you please describe what I've marked as Exhibit 3? A. It's a simple spreadsheet that I put together, back-of-the-envelope

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	Page 54		Page 56
1	A. Correct. Correct.	1	Q. Who contacted you about
2	Q. Were you asked to perform	2	serving as an expert?
3	this analysis by counsel?	3	A. I was contacted by a
4	A. No.	4	colleague at the University of Arizona.
5	Q. When did you perform this	5	Q. Who?
6	analysis?	6	A. Robert Downs.
7	A. Two Sundays ago.	7	Q. Who is Robert Downs?
8	Q. When was it provided to	8	A. He is a geosciences
9	counsel?	9	
10		10	professor.
	A. I believe Saturday or Sunday	l	Q. Who contacted Dr. Downs
	morning.	11	about seeking an expert for this
12	Q. How many times did you meet	12	litigation?
	with counsel in preparation for your	13	A. I don't know who contacted
14	deposition?	14	him. He referred me to Alex and Jack.
15	A. In preparation just for the	15	Q. When did you agree to serve
16	deposition? Probably three times in	16	as an expert?
17	person and once by videoconference.	17	A. In December before
18	Q. When did the in-person	18	Christmas. I don't remember the date.
19	meetings occur?	19	Q. And was that did you
20	A. One in Spokane.	20	agree to become an expert at the time
21	Q. When?	21	that you were contacted by counsel for
22	A. I'm trying to remember.		J&J?
	Two two Thursday ago, March 7th or	23	A. There were multiple
			conversations before I committed.
	thereabouts, whatever that Thursday date		conversations before I committed.
	Page 55		Page 57
1		1	_
	might be. And then Friday and Sunday of	1 2	Q. Let me ask a couple of
	might be. And then Friday and Sunday of this most recent week.		Q. Let me ask a couple of general questions.
3	might be. And then Friday and Sunday of this most recent week. Q. When was the	2 3	Q. Let me ask a couple of general questions. Would you agree that ore
3	might be. And then Friday and Sunday of this most recent week. Q. When was the videoconference?	3 4	Q. Let me ask a couple of general questions. Would you agree that ore and you've referred to ore often in your
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2 3 4 5	might be. And then Friday and Sunday of this most recent week. Q. When was the videoconference? A. I don't remember without looking at a calendar.	2 3 4 5 6	Q. Let me ask a couple of general questions. Would you agree that ore and you've referred to ore often in your report, it is a term of art in geology of course. But for members of the jury and
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2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	might be. And then Friday and Sunday of this most recent week. Q. When was the videoconference? A. I don't remember without looking at a calendar. Q. Was it prior to the March 7th meeting in Spokane? A. Yes. Q. Other than the three in-person meetings that you've mentioned in preparation for your deposition and the videoconference, did you meet with counsel in person on any other occasion? A. No. Q. Prior to the March 7th meeting in Spokane, had you ever met counsel in person? A. I don't believe so. Q. And prior to that time, all of your communication had been by	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Let me ask a couple of general questions. Would you agree that ore and you've referred to ore often in your report, it is a term of art in geology of course. But for members of the jury and maybe even others reading this transcript, the definition of ore may not be clear. But can we agree that ore is a type of rock that contains minerals that can be extracted for sale? A. With the addition of extracted at a profit, extracted and processed at a profit. Q. So the ore in your mind, it needs to be profitable? A. Profitable, yes. Q. And so if you happened to be an unfortunate mining company, which can happen, where you're mining rock and you're selling it, but you're not making

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¹ ore. But for purposes of starting the ² mine, we use an economic definition.

- Q. Okay. Because the hope is you're going to make money?
- The hope is you're going to make money.
 - Q. Not always true?
 - A. Not always true.
- Q. So -- but setting aside the expectation of profit, et cetera, bottom 11 line is ore is what you extract from the ground for purposes of sale?
 - A. Yes.

8

13

17

- 14 Would you agree that ofttimes, ore can have a primary mineral and then also have accessory minerals?
 - A. Yes.
- Q. Would you agree that 19 occurrences of certain minerals based on ²⁰ their geology can have a high degree of ²¹ variability in terms of the prevalence of ²² accessory minerals?
- A. You might have to rephrase ²⁴ that question for me.

¹ they can have an ultramafic deposit

² that's formed through the -- which would

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- ³ be true of Vermont, fair?
 - A. True.
- Q. And that talc deposits can ⁶ have variability in terms of the
- accessory minerals that are present,
- 8 true?
- A. What would you mean by accessory minerals with regard to tale?
- Q. It could be chlorite. It could be serpentine. Could be asbestos minerals. Could be cobalt, chromium, et cetera. Would you agree that certain deposits have a greater amount of those accessory minerals than others?
- 17 A. So I think in this context we would want to separate the actual talc 19 body from surrounding rock when we're talking about accessory minerals.
- Q. And is it your opinion that ²² talc body, as you just used, an ore body, ²³ would be a homogenous sort of formation ²⁴ of solely talc?

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12

24

- Q. Okay. Would you agree that ² certain minerals can, just because of
- ³ their very nature, how they are formed in
- ⁴ the earth, they can have a high
- variability of accessory minerals, true?
 - A. On what scale?
- Q. I'm not -- I'm not limiting ⁸ it to a particular scale. I'm just saying they can have a high variability of accessory minerals.
 - A. I think I would want to think of the more specific situation before I answered.
- Q. Not willing to agree to that pretty simple concept? 15
- A. No, it's actually not a 16 simple concept. I think I would want to ¹⁸ have a more specific example to answer.
- Q. How about with tale? Tale is a mineral that can be used in industrial and cosmetic settings, true? 22
 - Α. True.
- O. And talc can be formed in a ²⁴ number of different ways. For example,

- A. No. It would not be solely
- ² the chemical formula for talc. But what
- accessory minerals might exist with it
- ⁴ would be very specific to how that
- particular talc deposit formed and it
- could be peripheral to the talc body. Q. And they also could vary in
- amount across different talc deposits, true?
- 10 A. Again, could you clarify ¹¹ what you mean by they could vary?
 - What's unclear about that?
- A. Well, I'm just -- I'm just 14 trying to get in my mind, are we talking only about ultramafic bodies, what
- accessory minerals are we talking about?
- I just -- I just want to be clear in my 18 mind.
- 19 Q. Well, take Vermont for example, and ultra -- ultramafic talc deposits, they can vary in terms of the prevalence of certain accessory minerals, 23 true?
 - The -- the talc body can

	- Pageid: 1909	18n, Pn.D.
	Page 62	Page 64
	certainly vary in terms of grade of talc,	¹ material?
2	brightness, other variables, but when we	² A. I do.
3	are talking about accessory minerals, we	Q. And in terms of the amount
	would want to clarify what's part of the	⁴ of a material, in order for it to rise to
	talc body versus what are the	⁵ the level of an accessory mineral,
6	peripheral peripheral rocks.	⁶ what what would that be in your mind?
7	Q. How do you define accessory	A. I don't know if I could
8	minerals?	8 define a level that would make something
9	A. Accessory minerals, it would	⁹ accessory. If it could be separated and
10	depend on the type of ore body we are	is useful and could be sold, it would be
11	talking about and whether we are talking	¹¹ a byproduct or a co-product. To a mining
12	about the general geology of the ore	person or a metal person, or a geologist,
13	deposit.	that might still be considered an
14	Are we talking about what	¹⁴ accessory mineral. If it is not of
15	might occur microscopically with a	sufficient quality or use to be sold,
16	particular mineral of interest?	then it would be gang or waste material.
17	So it just depends as as	Q. You are not a geologist,
18	to what specifically we are talking	18 true?
19	about.	A. I am not a geologist.
20	Q. Is there a general	Q. Do you agree that selective
21	definition of accessory mineral that you	²¹ mining involves carefully outlining the
22	think is appropriate to use?	boundaries of a particular ore body
23	A. I tend to think more of ore	²³ first?
24	versus gang as opposed to specific	A. Outlining the?
	Page 63	Page 65
1	_	_
1 2	accessory minerals, coming from a mining	¹ Q. The particular boundaries of
2	accessory minerals, coming from a mining background. So geologists might talk	Q. The particular boundaries of an ore body.
3	accessory minerals, coming from a mining background. So geologists might talk about specific accessory minerals in a	 Q. The particular boundaries of an ore body. A. Yes.
3	accessory minerals, coming from a mining background. So geologists might talk about specific accessory minerals in a different context than than I might.	 Q. The particular boundaries of an ore body. A. Yes. Q. That's the first step
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2 3 4 5 6	accessory minerals, coming from a mining background. So geologists might talk about specific accessory minerals in a different context than than I might. Q. Well, since we're talking about let me strike that and say this. How do you understand	Q. The particular boundaries of an ore body. A. Yes. Q. That's the first step A. First step. Q in selective mining. The second step is to ensure
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Page 19 of 96 Page 68 Page 66 ¹ extracting ore, true? ¹ BY MS. O'DELL: A. Well, you can tell the

11

Q. I apologize. I thought you ³ were finished.

A. Again, I've -- I've lost my ⁵ train of thought.

So we were talking about ⁷ selective mining and whether you can --8 how -- how narrowly you can define the ⁹ boundaries.

10 Q. No. We actually had moved ¹¹ on.

A. Okay.

12

19

13 O. We had talked about the ¹⁴ second step in selective mining is essentially extracting material and then ¹⁶ delineating between ore versus waste ¹⁷ material. True?

A. I apologize.

Q. I'll restate it. If it's --

²⁰ I'm going to do my best to ask you clear ²¹ questions. And so you can respond to

22 them and we can have an understanding

²³ that you understood my question. But if

²⁴ you don't, just ask me to restate it.

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¹ I'm happy to do that.

A. Okay.

Q. The second step of selective ⁴ mining involves segregating ore and waste during the extraction process, true? A. Yes. You are basically

⁷ mining the ore and you don't want to 8 spend money moving any more waste than you have to.

10 Q. Right. And sometimes, ¹¹ despite best efforts, it's not always 12 possible to precisely segregate the ore 13 from other waste material that might be 14 included in that particular deposit, 15 fair?

A. So you can basically move ¹⁷ your -- your boundaries in from your 18 waste margins to prevent that from ¹⁹ happening.

Q. But in the delineation of ²¹ the particular ore body, if those ²² assumptions about the contours of the ore ²³ body are not accurate, it's very possible ²⁴ to extract waste believing that you're

³ difference between ore and waste. So I'm ⁴ not quite sure, when you say contours, ⁵ what you mean.

Q. Is it always true that you can tell the difference between ore and waste within a mine setting?

A. And are we talking generic mines or specific mines?

O. Generic.

A. I think we would want to 13 talk specific mines to answer that question.

Q. I'm asking you a general question.

17 A. I don't think there's a specific answer to that general question.

Q. You said in response to my ²⁰ question that -- excuse me, let me go back up to your answer.

You said you can tell the ²³ difference between ore and waste. That ²⁴ was your statement. Is that always true?

A. Always true for every kind

² of mineral deposit?

Q. Yes.

A. Again, I don't think we can ⁵ have a specific answer to a generic question like that.

Q. It's not always true that you can tell the difference between waste and ore in certain mining contexts, true?

10 A. I think we would want to talk about specifics.

Q. I'm asking you a general question. If you can't answer that question, then just say I can't answer ¹⁵ it.

16 A. Well, I -- I think it can be answered with specifics, but I don't think that it's --

19 Q. That's -- that's not a general principle that you can agree to?

21 A. Well, you certainly ²² delineate ore and waste.

I just, I guess I'm still ²⁴ confused on what -- what you're thinking

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Page 70	Page 72
¹ of in terms of can you discriminate	with real data for companies. That
² between them.	² includes surface and underground mine
³ Q. In an open pit setting where	³ data, mine planning, mine design. So
⁴ you have when you're using a drill and	working with the students, student
⁵ blasting situation, you'd agree with me	⁵ projects in the curriculum, we're working
6 that it is not always possible to discern	6 with mining companies with real data.
⁷ between the boundary of ore and waste,	So certainly I've been
8 true?	⁸ involved in mine design and mine planning
⁹ A. Again, I think we have to be	⁹ with real data.
¹⁰ talking about specific situations.	Q. In the context of a
Q. And you can't answer that	classroom?
¹² question in a general way?	A. In the context of the
A. I I think we have to talk	university.
¹⁴ about specifics.	And in a classroom, true?
Q. Is the answer you cannot	A. It doesn't necessarily have
¹⁶ answer that question?	to happen in a classroom.
A. As phrased about a generic	Q. But in a context of work as
18 situation, I can't.	a professor, true?
¹⁹ MR. CHACHKES: Leigh, we've	(19) A. Yes.
been going about an hour and ten	Q. And in terms of consulting
minutes. So wherever you think is	with a mining company for purposes of
a good point for a break.	designing an underground mine, you've
MS. O'DELL: I'm fine. If	never done that, true?
you'd like a break, that's fine	(24) (A. I have not.)
Page 71	Page 73
with me.	1 Q. And you have never consulted
² THE VIDEOGRAPHER: Please	with, or been employed by a mining
³ remove your microphones. The time	3 company in any way for purposes of
is 10:14 a.m. We are going off	4 directing the operation of an underground
5 the record.	⁵ mine in the real world, so to speak,
6 (Short break.)	6 true?
⁷ THE VIDEOGRAPHER: Okay. We	A. You might have to repeat the
8 are back on the record. The time	⁸ question for me.
⁹ is 10:36 a.m.	9 Q. I'm happy to. You have
¹⁰ BY MS. O'DELL:	never been employed by a mining company
¹¹ Q. Dr. Poulton, it's fair to	to direct the operation of an underground
say that you have never designed an open	mine, true?
pit mine, true?	A. True.
14 A. No.	Q. You have never designed a
Q. And it's fair to say that	beneficiation process outside the context
you have never directed the operation of	of your work as a professor in an
an open pit mine, true?	academic setting, true?
A. True.	A. True.
Q. Okay. And you have never	Q. Let's take that question
designed an underground mine, true?	again to make sure we have it clear.
A. From scratch?	Outside the context of your
Q. Yes.	work as a professor, you have never
(A.) Certainly within the context	designed a beneficiation or processing
23 A. Certainly within the context of the coursework that we teach, we work	designed a beneficiation or processing plant, true?

	Marge B. 2196	921	11, 111.0.
	Page 74		Page 76
1	A. For a mining company?	1	A. I believe they were used in
2	Q. Yes.	2	open pit mining at one point.
3	A. True.	3	Q. Which mines?
4	Q. And in relation to talc	4	A. I would have to go back and
5	specifically, you have never designed a	5	look at documents to be sure.
6	beneficiation process for talc, true?	6	Q. What period of time?
7	A. True.	7	A. Again, I'd have to look at
8	Q. And when we say	8	the documents to to be sure.
9	beneficiation in this context, would you	9	Q. Do you know how long?
10	agree with me we're referring to the	10	A. How
11	processing plant that receives ore from	11	Q. How long they were used, if
	the mine, and it is taken through a	12	they were used?
13	process to either purify it, remove	13	A. They were used? I don't
14	certain aspects of the ore, et cetera, in	14	know without looking at the documents
15	order to get a final product?	15	again.
16		16	Q. Do you have a memory whether
17	comminution, which is reduction in	17	it was a short period of time or a long
18	particle size and then concentration.		period of time?
19	Q. Turning to your report in	19	A. What would you define as
20		20	short versus long?
21		21	Q. Less than a year, more than
22	to Page 4 of your report. You cite an	22	a year?
23		23	A. That, I don't know.
24	published in 1984. It's an article by	24	Q. What mines were in Vermont
	, , , , , , , , , , , , , , , , , , ,		
			Daga 77
1	Page 75	1	Page 77
	Roger Miller. Who is Roger Miller?		were used to source Johnson & Johnson
2	Roger Miller. Who is Roger Miller? A. Roger Miller worked at the	2	were used to source Johnson & Johnson talcum powder products?
3	Roger Miller. Who is Roger Miller? A. Roger Miller worked at the Hammondsville mine. I think he might	2	were used to source Johnson & Johnson talcum powder products? A. I would want to refresh my
3	Roger Miller. Who is Roger Miller? A. Roger Miller worked at the Hammondsville mine. I think he might have been mine manager at one point.	2 3 4	were used to source Johnson & Johnson talcum powder products? A. I would want to refresh my memory to make sure I have it exactly
2 3 4 5	Roger Miller. Who is Roger Miller? A. Roger Miller worked at the Hammondsville mine. I think he might have been mine manager at one point. Q. And he was employee of	2 3 4 5	were used to source Johnson & Johnson talcum powder products? A. I would want to refresh my memory to make sure I have it exactly right. Hammondsville was used. Argonaut
2 3 4 5	Roger Miller. Who is Roger Miller? A. Roger Miller worked at the Hammondsville mine. I think he might have been mine manager at one point. Q. And he was employee of Windsor Minerals, true?	2 3 4 5	were used to source Johnson & Johnson talcum powder products? A. I would want to refresh my memory to make sure I have it exactly right. Hammondsville was used. Argonaut was used. My memory is that at certain
2 3 4 5 6 7	Roger Miller. Who is Roger Miller? A. Roger Miller worked at the Hammondsville mine. I think he might have been mine manager at one point. Q. And he was employee of Windsor Minerals, true? A. As far as I know, yes.	2 3 4 5 6 7	were used to source Johnson & Johnson talcum powder products? A. I would want to refresh my memory to make sure I have it exactly right. Hammondsville was used. Argonaut was used. My memory is that at certain points perhaps Hamm was used or qualified
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Roger Miller. Who is Roger Miller? A. Roger Miller worked at the Hammondsville mine. I think he might have been mine manager at one point. Q. And he was employee of Windsor Minerals, true? A. As far as I know, yes. Q. And Windsor Minerals was a wholly owned subsidiary of Johnson & Johnson, true? A. At one point, yes. Q. Mr. Miller wrote a presentation that was given at a meeting of the society of mining engineers. And it was the publication relates to continuous mining machines. Do you recall that? A. Yes. Q. And continuing mining machines were utilized in underground	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	were used to source Johnson & Johnson talcum powder products? A. I would want to refresh my memory to make sure I have it exactly right. Hammondsville was used. Argonaut was used. My memory is that at certain points perhaps Hamm was used or qualified for use and perhaps Rainbow was either qualified or perhaps had been used, but I would want to check the record to be certain that that is the right list. Q. Any others? A. Not that come to mind again without checking through some of the documents. Q. What county is the Hammondsville mine located in? A. What county? Q. Yes. A. I don't know.
2 3 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Roger Miller. Who is Roger Miller? A. Roger Miller worked at the Hammondsville mine. I think he might have been mine manager at one point. Q. And he was employee of Windsor Minerals, true? A. As far as I know, yes. Q. And Windsor Minerals was a wholly owned subsidiary of Johnson & Johnson, true? A. At one point, yes. Q. Mr. Miller wrote a presentation that was given at a meeting of the society of mining engineers. And it was the publication relates to continuous mining machines. Do you recall that? A. Yes. Q. And continuing mining machines were utilized in underground operations by Windsor Minerals, but they	2 3 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21	were used to source Johnson & Johnson talcum powder products? A. I would want to refresh my memory to make sure I have it exactly right. Hammondsville was used. Argonaut was used. My memory is that at certain points perhaps Hamm was used or qualified for use and perhaps Rainbow was either qualified or perhaps had been used, but I would want to check the record to be certain that that is the right list. Q. Any others? A. Not that come to mind again without checking through some of the documents. Q. What county is the Hammondsville mine located in? A. What county? Q. Yes. A. I don't know. Q. What county is Argonaut
2 3 3 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Roger Miller. Who is Roger Miller? A. Roger Miller worked at the Hammondsville mine. I think he might have been mine manager at one point. Q. And he was employee of Windsor Minerals, true? A. As far as I know, yes. Q. And Windsor Minerals was a wholly owned subsidiary of Johnson & Johnson, true? A. At one point, yes. Q. Mr. Miller wrote a presentation that was given at a meeting of the society of mining engineers. And it was the publication relates to continuous mining machines. Do you recall that? A. Yes. Q. And continuing mining machines were utilized in underground operations by Windsor Minerals, but they were not used in open pit mining, true?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	were used to source Johnson & Johnson talcum powder products? A. I would want to refresh my memory to make sure I have it exactly right. Hammondsville was used. Argonaut was used. My memory is that at certain points perhaps Hamm was used or qualified for use and perhaps Rainbow was either qualified or perhaps had been used, but I would want to check the record to be certain that that is the right list. Q. Any others? A. Not that come to mind again without checking through some of the documents. Q. What county is the Hammondsville mine located in? A. What county? Q. Yes. A. I don't know. Q. What county is Argonaut located in?
2 3 4 4 5 6 7 8 9 100 111 122 133 144 155 166 177 188 199 200 21 22	Roger Miller. Who is Roger Miller? A. Roger Miller worked at the Hammondsville mine. I think he might have been mine manager at one point. Q. And he was employee of Windsor Minerals, true? A. As far as I know, yes. Q. And Windsor Minerals was a wholly owned subsidiary of Johnson & Johnson, true? A. At one point, yes. Q. Mr. Miller wrote a presentation that was given at a meeting of the society of mining engineers. And it was the publication relates to continuous mining machines. Do you recall that? A. Yes. Q. And continuing mining machines were utilized in underground operations by Windsor Minerals, but they	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	were used to source Johnson & Johnson talcum powder products? A. I would want to refresh my memory to make sure I have it exactly right. Hammondsville was used. Argonaut was used. My memory is that at certain points perhaps Hamm was used or qualified for use and perhaps Rainbow was either qualified or perhaps had been used, but I would want to check the record to be certain that that is the right list. Q. Any others? A. Not that come to mind again without checking through some of the documents. Q. What county is the Hammondsville mine located in? A. What county? Q. Yes. A. I don't know. Q. What county is Argonaut

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	Page 78	Page 80
1 Hamm mine is located in?	1	Q. If you check documents and
A. I don't know.	<u>'</u>	you learn that that's not the case, would
Q. Do you know wh		you come back to me because I'm going to
4 Ludlow is located in?		rely on your answer that you've just
5 A. I don't without lo		given.
6 map.	6	MR. CHACHKES: Counsel, I'm
7 Q. You don't know t		just going to object there. We
8 context of your work in th	that in the	are not keeping the deposition
9 don't know what county th	is case: 1 ca	open. If you want to investigate
located, true?	10sc illines are	documents, we can do it right
11 A. Off the top of my		here.
this deposition, I don't.	y Head III) (12)	MS. O'DELL: Well, she's
I would have to co		saying I need to look at
map that was in some of the		documents.
Q. What initis were		BY MS. O'DELL:
Johnson & Johnson to pro		Q. If there's something that
17 talc?		you need to look at, I'm sure your lawyer
A. West Windsor.		is going to provide it to you. I don't
Q. Any others?)	know exactly what document you are
A. Not that I recall.		referring to. So you keep qualifying
Q. Ludlow, the Lud		your answer in that way. And I'm just
used to process industrial		trying to get a final answer so I'll know
A. That is my under		what your opinion is. Is that fair?
Q. And ore from o	ore 24	A. Well, I don't want this to
	Page 79	Page 81
		1 agc 61
1 excuse me.	1	
CACUSC IIIC.		be a memory test. I want it to be
Ore for cosmetic t	calc was	be a memory test. I want it to be accurate. So I want to make sure that
Ore for cosmetic t crushed at Ludlow prior to	ralc was being 3	be a memory test. I want it to be accurate. So I want to make sure that what I'm answering is accurate.
Ore for cosmetic to 3 crushed at Ludlow prior to 4 transported to West Winds	calc was being 3 sor for 4	be a memory test. I want it to be accurate. So I want to make sure that what I'm answering is accurate. Q. I want I want to
Ore for cosmetic to 3 crushed at Ludlow prior to 4 transported to West Winds 5 processing, true?	alc was 2 (a) being 3 (a) sor for 4	be a memory test. I want it to be accurate. So I want to make sure that what I'm answering is accurate. Q. I want I want to understand your opinions. That's why I'm
Ore for cosmetic to 3 crushed at Ludlow prior to 4 transported to West Winds 5 processing, true? A. I would want to 6	confirm that 2 being 3 confirm that 2 confirm that	be a memory test. I want it to be accurate. So I want to make sure that what I'm answering is accurate. Q. I want I want to understand your opinions. That's why I'm here today. I want if there's
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Ore for cosmetic to crushed at Ludlow prior to transported to West Winds processing, true? A. I would want to compare the documents. That is recollection but I would w	calc was being sor for 4 confirm that my rant to confirm 2 calc was 2 calc was 3 calc was 4 calc was 5 calc was 6 calc was 7 calc was 6 calc was 7 calc was 8 calc wa	be a memory test. I want it to be accurate. So I want to make sure that what I'm answering is accurate. Q. I want I want to understand your opinions. That's why I'm here today. I want if there's something that you have described in your report, I'm here to ask you a question
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Ore for cosmetic to a crushed at Ludlow prior to transported to West Winds processing, true? A. I would want to compare the documents. That is recollection but I would we that. Q. As I appreciate y	calc was being sor for 4 confirm that my rant to confirm sour answer,	be a memory test. I want it to be accurate. So I want to make sure that what I'm answering is accurate. Q. I want I want to understand your opinions. That's why I'm here today. I want if there's something that you have described in your report, I'm here to ask you a question about it. If you've got another opinion that's not in your report, I want to know
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Ore for cosmetic to a crushed at Ludlow prior to transported to West Winds processing, true? A. I would want to compare the following of the collection but I would we that. O. As I appreciate your recollection, was the case, fair?	calc was being sor for 4 confirm that my rant to confirm our answer, that that 11 12	be a memory test. I want it to be accurate. So I want to make sure that what I'm answering is accurate. Q. I want I want to understand your opinions. That's why I'm here today. I want if there's something that you have described in your report, I'm here to ask you a question about it. If you've got another opinion that's not in your report, I want to know about it, because this is my opportunity. Okay.
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Ore for cosmetic to crushed at Ludlow prior to transported to West Winds processing, true? A. I would want to compare the compare to transported to West Winds processing, true? A. I would want to compare the collection but I would we that. Q. As I appreciate your recollection, was the case, fair? A. Could you repeat question for my recollection. Q. Well, you just sa	calc was being sor for confirm that my rant to confirm cour answer, that that t the on? id it's my	be a memory test. I want it to be accurate. So I want to make sure that what I'm answering is accurate. Q. I want I want to understand your opinions. That's why I'm here today. I want if there's something that you have described in your report, I'm here to ask you a question about it. If you've got another opinion that's not in your report, I want to know about it, because this is my opportunity. Okay. So it's your understanding that cosmetic talc was crushed at Ludlow and then sent to West Windsor for
Ore for cosmetic to crushed at Ludlow prior to transported to West Winds processing, true? A. I would want to compare the collection but I would we that. O. As I appreciate your recollection, was the case, fair? A. Could you repeat question for my recollection of the collection that it was true.	calc was being sor for confirm that my rant to confirm cour answer, that that t the on? id it's my to being 3 2 4 7 4 10 11 12 14 13 15 16 16 16 16 16 16 16 17 18 19 19 10 11 12 12 13 14 15 16 16 16 16 16 16 16 16 17 18 18 18 18 18 18 18 18 18	be a memory test. I want it to be accurate. So I want to make sure that what I'm answering is accurate. Q. I want I want to understand your opinions. That's why I'm here today. I want if there's something that you have described in your report, I'm here to ask you a question about it. If you've got another opinion that's not in your report, I want to know about it, because this is my opportunity. Okay. So it's your understanding that cosmetic talc was crushed at Ludlow and then sent to West Windsor for processing, fair?
Ore for cosmetic to crushed at Ludlow prior to transported to West Winds processing, true? A. I would want to compare the collection but I would want to compare the collection was the case, fair? A. Could you repeat question for my recollection that it was true was crushed at Ludlow and collection that it was true was crushed at Ludlow and collection that it was true was crushed at Ludlow and collection that it was true was crushed at Ludlow and crushed at Ludl	confirm that confirm that my rant to confirm cour answer, that that the on? id it's my e that ore d then sent to	be a memory test. I want it to be accurate. So I want to make sure that what I'm answering is accurate. Q. I want I want to understand your opinions. That's why I'm here today. I want if there's something that you have described in your report, I'm here to ask you a question about it. If you've got another opinion that's not in your report, I want to know about it, because this is my opportunity. Okay. So it's your understanding that cosmetic talc was crushed at Ludlow and then sent to West Windsor for processing, fair? A. That's my recollection.
Ore for cosmetic to crushed at Ludlow prior to transported to West Winds processing, true? A. I would want to compare the collection but I would we that. O. As I appreciate your recollection, was the case, fair? A. Could you repeat question for my recollection but I would we that. O. Well, you just sair recollection that it was true was crushed at Ludlow and west words.	calc was being sor for confirm that my rant to confirm cour answer, that that t the on? id it's my e that ore d then sent to ing. I	be a memory test. I want it to be accurate. So I want to make sure that what I'm answering is accurate. Q. I want I want to understand your opinions. That's why I'm here today. I want if there's something that you have described in your report, I'm here to ask you a question about it. If you've got another opinion that's not in your report, I want to know about it, because this is my opportunity. Okay. So it's your understanding that cosmetic talc was crushed at Ludlow and then sent to West Windsor for processing, fair? A. That's my recollection. Q. Ore from Argonaut was mined
Ore for cosmetic to crushed at Ludlow prior to transported to West Winds processing, true? A. I would want to compare the documents. That is recollection but I would we that. O. As I appreciate your recollection, was the case, fair? A. Could you repeat question for my recollection but I would we see that your recollection, and the case was the case was the case of the case	calc was being sor for confirm that my rant to confirm cour answer, that that t the on? id it's my e that ore d then sent to ing. I t that is your	be a memory test. I want it to be accurate. So I want to make sure that what I'm answering is accurate. Q. I want I want to understand your opinions. That's why I'm here today. I want if there's something that you have described in your report, I'm here to ask you a question about it. If you've got another opinion that's not in your report, I want to know about it, because this is my opportunity. Okay. So it's your understanding that cosmetic talc was crushed at Ludlow and then sent to West Windsor for processing, fair? A. That's my recollection. Q. Ore from Argonaut was mined for both industrial purposes as well as
Ore for cosmetic to crushed at Ludlow prior to transported to West Winds processing, true? A. I would want to compare the collection but I would want to collection. A. I appreciate yant the case, fair? A. Could you repeat question for my recollection that it was true was crushed at Ludlow and was crushed at Ludlow and west Windsor for process understood you to say that recollection.	confirm that confirm that my rant to confirm cour answer, that that t the on? id it's my e that ore d then sent to ing. I that is your 2 2 3 3 3 4 5 4 10 11 12 14 11 12 14 15 16 16 16 17 18 18 19 19 19 10 10 11 11 11 11 12 11 12 13 14 15 16 16 17 18 18 18 19 19 10 10 10 11 11 11 11 12 13 14 15 16 16 17 18 18 19 19 10 10 10 10 11 11 11 11	be a memory test. I want it to be accurate. So I want to make sure that what I'm answering is accurate. Q. I want I want to understand your opinions. That's why I'm here today. I want if there's something that you have described in your report, I'm here to ask you a question about it. If you've got another opinion that's not in your report, I want to know about it, because this is my opportunity. Okay. So it's your understanding that cosmetic talc was crushed at Ludlow and then sent to West Windsor for processing, fair? A. That's my recollection. Q. Ore from Argonaut was mined for both industrial purposes as well as cosmetic purposes, true?
Ore for cosmetic to crushed at Ludlow prior to transported to West Winds processing, true? A. I would want to compare the collection but I would were that. O. As I appreciate your recollection, was the case, fair? A. Could you repeat question for my recollection but I was true. West Windsor for processing true? West Windsor for processing true? A. That is my recollection.	calc was being sor for confirm that my rant to confirm cour answer, that that t the on? id it's my e that ore d then sent to ing. I that is your courans courans	be a memory test. I want it to be accurate. So I want to make sure that what I'm answering is accurate. Q. I want I want to understand your opinions. That's why I'm here today. I want if there's something that you have described in your report, I'm here to ask you a question about it. If you've got another opinion that's not in your report, I want to know about it, because this is my opportunity. Okay. So it's your understanding that cosmetic talc was crushed at Ludlow and then sent to West Windsor for processing, fair? A. That's my recollection. Q. Ore from Argonaut was mined for both industrial purposes as well as cosmetic purposes, true? A. True.
Ore for cosmetic to crushed at Ludlow prior to transported to West Winds processing, true? A. I would want to compare the documents. That is recollection but I would we that. O. As I appreciate your recollection, was the case, fair? A. Could you repeat question for my recollection to we free processing true? Well, you just sa recollection that it was true was crushed at Ludlow and West Windsor for processing understood you to say that recollection. A. That is my recollection. And then you keep the transported to west windsor for processing understood you to say that recollection.	confirm that my rant to confirm four answer, that that t the on? id it's my e that ore d then sent to ing. I t that is your lection. ep saying	be a memory test. I want it to be accurate. So I want to make sure that what I'm answering is accurate. Q. I want I want to understand your opinions. That's why I'm here today. I want if there's something that you have described in your report, I'm here to ask you a question about it. If you've got another opinion that's not in your report, I want to know about it, because this is my opportunity. Okay. So it's your understanding that cosmetic talc was crushed at Ludlow and then sent to West Windsor for processing, fair? A. That's my recollection. Q. Ore from Argonaut was mined for both industrial purposes as well as cosmetic purposes, true? A. True. Q. And that's also true for the
Ore for cosmetic to crushed at Ludlow prior to transported to West Winds processing, true? A. I would want to compare the collection but I would were that. O. As I appreciate your recollection, was the case, fair? A. Could you repeat question for my recollection but I was true. West Windsor for processing true? West Windsor for processing true? A. That is my recollection.	confirm that my rant to confirm four answer, that that t the on? id it's my e that ore d then sent to ing. I t that is your lection. ep saying	be a memory test. I want it to be accurate. So I want to make sure that what I'm answering is accurate. Q. I want I want to understand your opinions. That's why I'm here today. I want if there's something that you have described in your report, I'm here to ask you a question about it. If you've got another opinion that's not in your report, I want to know about it, because this is my opportunity. Okay. So it's your understanding that cosmetic talc was crushed at Ludlow and then sent to West Windsor for processing, fair? A. That's my recollection. Q. Ore from Argonaut was mined for both industrial purposes as well as cosmetic purposes, true? A. True.

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	Page 82		Page 84
1	Q. That was also true for the	1	body has been, you know, characterized,
2	Hammondsville mine?	2	data has been collected, whether through
3	A. That I would have to	3	core drilling or other mechanisms, and
4	confirm.	4	that data has been collected and the
5	Q. Hammondsville was used to	5	mineralogy of a particular deposit has
6	source cosmetic talc, true?	6	been described in the literature for
7		7	example, that data would be relevant for
8		8	all projects in the future that relate to
9	used to source industrial talc, true?	9	that particular ore body, true?
10		10	A. So are we talking about a
11		11	general description of mineralogy
12		12	regionally?
13		13	Q. It could be regionally. It
14	A. I believe sitting here right	14	could be a district that's being
15	now. But again I don't necessarily want	15	described.
16		16	But for example, in this
17	to rely oil litelitery right item.	17	particular case there are publications of
18		18	the mineralogy of Vermont and the talc
19	source J&J talc, and I'm meaning the	19	deposits found there that were written in
20	Vermont deposit.	20	1950s, 1960s, some earlier, that describe
21		21	the general mineralogy of those deposits.
22	we look at the documents that that	22	Do you recall those?
23		23	A. I think I've seen reference
24		24	to publications say by Chidester. I
	Page 83		Page 85
1	11. That they are tale boares,		think there was another one that is
2	there is a sometimes serpentine or	2	commonly cited. I don't remember the
3	serpentinite core that grades from that	3	author off the top of my head.
	core to a potentially talc carbonate	4	Q. And in those publications,
	body, then a talc body, and then	5	though written in the 1950s, describe
	ultimately to the boundary which is	6	the now, their let me strike that
	called a black wall and then into country	7	and start again.
- 1 -	rock.	8	Those publications, though
9	Q. (Hind Was the origin of		they're written in 1950s for example,
10		10	characterize the mineralogy and continue
11		11	to have application for future projects
12	The good grid origin.	12	in that area, fair?
13	Q. 165.	13	A. And what do you mean by
14	11. Itgain, I would want to go	14	projects?
15	ement to good great reports on that, occurred	15	Q. Mining projects.
16	y was pressured to the second	16	A. Mining projects. So it
17	8	17	really depends on the scale that you're
18	bodies in Vermont.	18	talking about. And it also depends on
19	Q. You are not a mineralogist,	19	re-interpretation of geology since then
20	true?	20	because we're much better at age dating
21	A. I am not a mineralogist, but	21	rocks. We're much better at
22	I do teach mineralogy and petrology for	22	understanding tectonic movements and
100	engineers.	23	and what was occurring when over millions
23	cligilicers.	23	
24	Q. If the mineralogy of an ore		of years. So maybe they are relevant on

3.10-111d	Markel	15.19.19.24, Ph.D.
	- ago	Page 86 Page 88
¹ a genera	l level. Maybe they are not.	¹ techniques, and what's available now.
_	y may not be applicable when	*
	get down to the mining zone.	³ correct, and if you assume assume the
	All right. But the	4 methodology that was used is correct, and
	ental geology doesn't change	
	nanged in the last hundred year	<u>-</u>
7 fair?	5	7 that data would continue to be relevant
8 A.	The rocks haven't changed	
9 Q.	Correct.	9 material, true?
10 A.	perhaps in a million	10 A. Again, it it really
	ut the the geologic science	depends on how those data were collected
J conte, e	ved. And again it would come	
	revisions that can be made ba	<u>-</u>
	analytical techniques particula	
15 for aged		with better techniques today. I I
16 O.	But the fundamental	16 don't know the answer to that.
<u> </u>	ogy would not vary over that	Q. In terms of publications
111111111111	ar time period?	like that, so we are talking about in
	The the minerals that are	particular talc, in some of the the
	cks are are still there. The	
		pasireations that were written in the
22 potentia	tation of the mineralogy could	
		Chidester, do you have any basis to say
<u>~·</u>	May change, may not change	
A.	It depends on the level of	relevant to the talc ore bodies in
		Page 87 Page 89
detail of	Tthe analysis of the minerals.	1 Vermont?
2 Q.	If the geochemistry of a	A. So I have not read Chidester
³ particula	ar ore body has been evaluated	and I couldn't answer specifically to
⁴ the data	regarding that geochemistry	4 Chidester.
⁵ would b	e relevant for the entire period	Q. Have you had have you
6 of time	that ore body is mined, true?	⁶ read Seymour?
⁷ A.	So when you say	A. I have not read Seymour.
8 geocher	nistry, could you clarify for me	e Q. Have you read Van Gosen on
9 Q.	The presence of heavy	⁹ talc deposits?
10 metals,	for example.	A. I don't recall if I've read
¹¹ A.	The presence of heavy	all of Van Gosen. I may have seen some
12 metals.	And you're, again, asking	of Van Gosen.
13 specific	ally what about the heavy meta	als? Q. Have you read the Ratté
14 Q.	I'm asking if the	publication on the mineralogy of Vermont?
15 fundame	ental geochemistry of a particu	
	has been evaluated and descr	
1	erature, that would be relevant	
	know, many years after that	my list?
	ion was published, fair?	Q. I'm asking you, I'm not
20 A.	Maybe not. Again, it	looking at your list.
²¹ depends	on analytical techniques and	A. Oh, okay. I don't recognize
	-	
_	olution. How samples were	that name. I guess I'd have to see the
22 their res	olution. How samples were So it it would really depend a	that hame. I guess it have to see the
their res	olution. How samples were so it it would really depend a hen initial data were taken, wh	a citation.

Page 25 of 96 Page 92 1 Resource Provinces of Vermont, Geological ¹ of the mine, I have not seen maps of the ² Fontaine mine. ² Survey, 1982. A. I don't recall referencing Q. You've not seen planning ⁴ documents for the Italian talc mines that 4 that in my report. Q. Have you read Robert Virta, were used to source Baby Powder and ⁶ "The phase relationship of talc and Shower to Shower, true? amphiboles in a fibrous talc sample," A. So planning maps, did you 8 Bureau of Mines, 1985? say? A. I -- I may have seen that Q. I think I said mine plans, paper. I don't recall. But it's -or planning documents? Q. If it's not on your list you 11 A. Planning documents would ¹² have not seen it, correct? include mine maps. Again, I have not A. Well, I may have seen it in seen mine maps for Fontaine. passing and decided that it wasn't 14 Q. Or plans of any other type? relevant to looking at the -- the mine 15 A. Or plans. I've seen ¹⁶ descriptions of the mining methods. planning. 17 Q. What's your understanding of Q. Do you have any opinions 18 regarding the mine planting -- not the geological formation of the talc ¹⁹ planting -- planning and implementation deposit in China that is used to source ²⁰ that was conducted in the Italian talc J&J talcum powder products? A. So again, I'm not focused on 21 mines? 22 the geologic formation of these deposits. A. So do I have a opinion on ²³ I'm focused on the mining methods and the ²³ the mine planning that was done or the beneficiation. The descriptions that ²⁴ mine operations? Page 91 Page 93 ¹ I've seen of the geology indicate that O. Yes. A. So there's very little ² it's carbonate based and is a pure talc ³ information other than what has been ³ or a high grade talc I should say. Q. It's a deposit that is 4 described in trip reports for the mining ⁵ operation. And I don't believe I saw a characterized by high levels of dolomite, ⁶ published report on mine plans for the true? ⁷ Fontaine mine. A. I would have to look at some Q. Do you have any opinions documents to confirm dolomite. regarding the mine planning for the O. How about chlorite? 10 Italian mines that were used to source A. That I don't know without 10 ¹¹ Johnson & Johnson's Baby Powder or Shower looking at documents. 12 to Shower? Q. Have you seen any data --A. So what I have seen from strike that. Let me ask one question 13 ¹⁴ described reports, describe the mining before I get there. 15 methods, and describe the mining process. What's the name of the mine

18

20

21

¹⁶ And how the talc was sorted. I don't know that I have seen a published mine 18 plan. 19 Q. So you don't have any

²⁰ opinions regarding the mine planning or ²¹ mine plan of the mines in Italy that were ²² used to source J&J talcum powder products, true? 24

A. If you mean mine plan maps

Johnson & Johnson's Baby Powder? A. The Chinese names I would have to look in my report if that's okay. Q. Sure. A. Okay. So I list a surface mine in Guangxi Province, Longshen County 23 in China. I would have to look at one of

24 the documents to get the exact name of

or mines in China that are used to source

Filed 07/23/24 Page 26 of 96 Page 94 Page 96 ¹ the mine, because I'll mispronounce it. ¹ from testing from the tests that ² It's something on the order of Guping or ² ostensibly have been run by the Guangxi ³ something, I think. I want to go back ³ University lab, whether that be, you ⁴ and look at that document. ⁴ know, TEM data, SEM data, XRD data, et ⁵ cetera? O. Is the Zhizhuo -- and ⁶ forgive my pronunciation, but I think A. I would have to look at some ⁷ that's close. Alex can probably tell me. of the documents for the Houston mill to 8 Is the Zhizhuo mine one of the mines that see if they had the university test results in the documents when they ⁹ was used to source Johnson & Johnson ¹⁰ talcum powder products? received shipment in Houston. 11 A. I'd want to go back and look 11 Q. Do you -- I'm not asking for at that document to make certain which any summary documents. I'm asking for mines were which. ¹³ underlying data from that testing. Have 14 you seen any XRD, TEM, or SEM output or Q. Have you seen any mine data from that testing? planning documents related to the Chinese ¹⁶ mine, or mines used to source Johnson & A. And I would have to see if Johnson products? those fundamental data were attached to A. I have not seen mine plans anything that was received in Houston. for the mine in China. 19 Q. Do you recall such data 20 being attached as you sit here today? Q. Have you seen drill core ²¹ logs or any similar data from the mines A. I don't without going back ²² in China used to source -- source J&J and looking at some of the documents. ²³ talcum powder products? Q. So I'll represent to you ²⁴ that I have -- I or my colleagues -- have A. No. Page 95 Page 97 Q. In your report on Page 5, looked through every document that's been you mention that the Guangxi University ² disclosed in this litigation regarding geology testing, et cetera. If I've ³ tests talc ore for quality. ⁴ never seen any XRD output, SEM output, Do you see that? A. Yes. ⁵ you know, TEM underlying data, would you O. And in relation to that agree with me that it's not been testing, have you seen any test results provided? 8 from the Guangxi University testing? MR. CHACHKES: Objection. A. I would have to go back and THE WITNESS: I might ask a 10 look at some of the documents to see if 10 second opinion, but... 11 there were specific test results from BY MS. O'DELL: 12 ¹² that university. Q. You have no reason to 13 Q. Do you recall any as you sit disagree with me? 14 here today? A. I don't have a reason to 15 A. Possibly. But I'm not sure. 15 disagree. Q. Have you seen any 16 Q. What is JORC J-O-R-K? 16 17 photomicrographs from that testing? A. C. 18 I don't think I looked for Q. C, excuse me. A. JORC is joint ore reserve 19 them. 20 committee.

A. If I have seen them, I would

Have you seen any other data

Q. So that's a no to my

21

22

24

question?

agree I have not.

Q. And that joint ore resource

committee is a -- or document, is

published by the Australasian -- I can't

say this. Forgive me. Australasian --

Page 98 Page 100 Pacific Rim is easier. Australasian code adherence to JORC, true? ² for reporting of mineral resources and A. Adherence to JORC as ore reserves? ³ published on the JORC.org website, true. Q. As to the mines in China, do A. Correct. Q. And the Pacific of JORC is ⁵ you have any information to suggest that 6 the Chinese mining company is in 6 to institute some type of standard or ⁷ agreed upon reporting in order to ⁷ compliance with the JORC standards? 8 evaluate ore reserves, correct? A. I don't have information. A. And resources. Q. In terms of Vermont, would 10 Q. And essentially the purpose it be fair to say that in relation to the of that document, JORC, if you will, is Vermont talc mines, that they were never to ensure that ore reserves are ¹² in compliance with JORC standards? calculated with some accuracy for A. I don't know that I can say purposes of evaluating the economic value ¹⁴ they were never in compliance. Rio of a particular ore body, true? ¹⁵ Tinto, I believe, followed JORC as 16 A. So it is for public ¹⁶ largely an Australian company. I don't reporting of resources in reserves to have complete records to know what was protect investors from erroneous reports reported for talc resources and reserves of resources and reserves. So it sets a through Rio Tinto. professional standard for how those 20 Q. During the -- during the resources and reserves should be time period that Vermont was used to calculated and reported. source Johnson & Johnson's talcum powder 23 products, approximately 1960 to 2000 --Q. It is not a required reporting mechanism for mines in the ²⁴ early 2003, do you have any information Page 99 Page 101 ¹ to suggest that either Windsor Minerals 1 United States, true? A. So there is a harmonization ² or Cyprus Minerals or any of the ³ group for securities exchanges called ³ companies that owns -- Imerys, were in 4 CRIRSCO. So all of the various security ⁴ compliance with JORC during the time they ⁵ exchanges that deal with mine resource operated the mines? and reserve reporting participate through A. Well, JORC didn't come into ⁷ professional organizations within existence until 1970s, I believe. I'd 8 CRIRSCO, a worldwide organization. And ⁸ have to look at the exact date for when 9 JORC has been a permanent standard in JORC came into compliance. I believe that harmonization worldwide for ¹⁰ Guide 7 for the SEC, late '70s, early 11 securities exchanges. 11 '80s, perhaps as well. So you can only So the Securities & Exchange go back as far as those standards of Commission in the U.S., the SEC, used a practice existed. 14 different standard called Guide 7 until O. That's fair -- that's fair quite recently. And now they have agreed ¹⁵ enough. to change Guide 7 and update it to be 16 Following the creation of more in alignment with JORC. JORC, 1970s, whatever it might have been. Q. But the SEC does not, has And obviously the talc mines were in 19 not in the past and currently does not operation in Vermont, the ones that were require adherence to JORC, true? used to source Baby Powder. Do you have 21 any data to suggest that the operations A. It's a similar standard. It ²² leaves out certain categories of ²² were in compliance with the mandates of ²³ resources. 23 JORC? 24 24 Q. The SEC does not require I have seen reference to

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	Page 102		Page 104
1	JORC in some of the mine plans during the	1	BY MS. O'DELL:
	Rio Tinto ownership.	2	Q. And you reviewed both of
3		3	these reports in writing your report in
4	in in 2008 in a document states that	4	this case, fair?
5	they were not in JORC compliance.	5	A. Correct.
6		6	MR. CHACHKES: Just for the
7	planning.	7	record, Exhibit 5 is the amended
8	Q. And do you have any data to	8	report, right?
9	suggest that they were in compliance with	9	MS. O'DELL: Yes. That's
10	JORC prior to 2008?	10	correct. Exhibit 5 is Dr. Cook's
11	A. I would have to go back and	11	amended report. Thanks for the
12	look at earlier mine documents.	12	clarification.
13	Q. If JORC was never mentioned	13	BY MS. O'DELL:
14	in a Rio Tinto or Imerys or Cyprus or	14	Q. If you'll turn to Page 6 of
	West Windsor Minerals document prior to	15	your report, and we'll be toggling back
	2008, would you agree with me it's more	16	and forth a little bit between reports.
	likely than not they were not in	17	But, to start our
	compliance with JORC?	18	discussion, you criticize Dr. Cook and
19	=	19	· · · · · · · · · · · · · · · · · · ·
20	A. Not necessarily. It doesn't	20	Dr. Krekeler for, as you put it,
	have to say this is in compliance with	21	improperly conflating non-ore samples and
22	JORC to be in compliance with JORC.	22	
	Q. Bo you have any data to	23	Fair?
	suggest they were in compliance prior to	24	A. Correct.
24	2008?	24	Q. And you base that in large
	Page 103		Page 105
1	A. Were or were not in	1	measure on statements in which Dr. Cook
2	compliance?	2	and Dr. Krekeler refer to a report of
3	Q. Were in compliance.		Dr. Fred Pooley from regarding Italian
4	A. I I don't have	4	mines?
5	information that they were or were not.	5	A. Yes.
6	Q. You can't say one way or the	6	Q. And fundamentally,
7	•	7	Dr. Poulton, is it your position that all
8	A. I don't have that		of the samples that Dr. Pooley analyzed
9	information.	9	in that report regarding the Italian
10	(Document marked for	10	mine, that those samples were not
11	identification as Exhibit	11	material that would be considered ore?
12	Poulton-5.)	12	A. My recollection is that he
13	BY MS. O'DELL:	13	
14	Q. Let me show you what I'm	14	collecting samples of non-ore and took a
15	going to mark as Exhibit 5. It is a copy	15	few examples of ore but was predominately
16	of Dr. Cook's report that was served in	16	looking at non-ore.
17	the litigation. We'll be referring to	17	Q. But he considered both ore
18	that some.	18	and non-ore in the report, fair?
19	And then also hand you what	19	A. He had a couple of ore
20	I'm marking as Exhibit 6 which is a copy	20	samples.
21	of Dr. Krekeler's report.	21	Q. So he had ore samples and
22	(Document marked for	22	what and what you would term as
23	identification as Exhibit	23	•
143			
24	Poulton-6.)	24	A. Non-ore.

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	Page 106		Page 108
1	Q true?	1	I I haven't seen color pictures in my
2	A. I believe so.	2	report. So I would like to know that
3	(Document marked for	3	it's exactly the same.
4	identification as Exhibit	4	MS. O'DELL: Let's go off.
5	Poulton-7.)	5	THE VIDEOGRAPHER: All
6	BY MS. O'DELL:	6	right. The time is 11:23 a.m.
7	Q. And I'm going to hand you	7	Off the record.
8	what I'm going to mark as Exhibit	8	(Brief pause.)
9	Number 7 for your deposition. And ask	9	THE VIDEOGRAPHER: Okay. We
10		10	are back on the record. The time
11	that you're referring to in your report	11	is 11:44 a.m.
12	at Page 6?	12	BY MS. O'DELL:
13	A. I'd have to look at the one	13	Q. Dr. Poulton, I've put before
14	I had, because I didn't have color	14	you your copy of Dr. Pooley's report
15	pictures in it. So I'd have to find out	15	regarding Italian mine samples. I've
16	if this is the same one.	16	marked it as Exhibit 8. Do you have that
17	MR. CHACHKES: Let's not	17	in front of you?
18	forget to write in Poulton on the	18	A. I do.
19	exhibit tags. I see they are	19	(Document marked for
20	blank right now with just numbers.	20	identification as Exhibit
21	(Whereupon, a discussion was	21	Poulton-8.)
22	held off the record.)	22	BY MS. O'DELL:
23	BY MS. O'DELL:	23	Q. If you'll turn to Page 8
24	Q. So taking a look at this,	24	excuse me, not 8. 2 of his actual
	Page 107		Page 109
1	what I've marked as Exhibit 7, does this	1	report, which has at the bottom, a number
		2	JNJ 000322355.
	reviewed in reaching your opinions	3	Do you see that?
	expressed on Page 6 and thereafter?	4	A. Yes.
5	A. It seems to have different	5	Q. It's page
6	numbers on it. So I think I would have	6	A. It also says JNJ 0050290.
7	to put mine side by side with this to	7	Is that the same page?
8	confirm.	8	Q. It is.
9	Q. Okay. Did you bring yours	9	A. Okay.
10	with you?	10	Q. So for our purposes today,
11	A. I don't have it with.	11	we'll go we'll go with the bottom
12	MR. CHACHKES: We we do	12	Bates number.
13	have every exhibit somewhere here	13	A. Okay.
14	in the room.	14	Q. What you see right there on
15	BY MS. O'DELL:	15	the screen.
16	Q. Okay. Well, I I believe	16	A. Okay.
17	this to be the same report that you've	17	Q. And if you'll look at the
18	looked at, the the one I have marked	18	top of the page, the second paragraph
19	0.5 0.5 2.111.010 / (19	beginning with the objective.
20	But if you need to see your	20	Do you see that?
21	evin copy of your lawyers copy to commin	21	A. Yes.
22	that, we tall go off the football for a	22	Q. It says, "The objective of
23	•	23	the examination has been mainly to
24	A. Yeah, I'd like to because	24	establish the major minerals which occur

		<u> </u>	Maryelb. 1965301, Ph.D.				
	Page 110		Page 112				
1	in association with talc at the Italian	1	evaluate let me just read it.				
2	mine. In particular, to look at the	2	His objective as stated was,				
3	association of these minerals with talc,	3	"The examination has been mainly to				
4	and especially those minerals which are	4	establish the major minerals which occur				
5	of the same family as the commercial	5	in association with talc at the Italian				
6	asbestos minerals, i.e., the amphiboles	6	mine," true?				
7	and serpentine."	7	A. So that statement doesn't				
8	Did I read that correctly?	8	mean that those minerals are associated				
9	A. I see that, yes.	9	with the commercial minable talc. It				
10	Q. And and so this is	10	means that they're associated surrounding				
11	Dr. Pooley's description of his objective		the talc body when you look at where he				
12	for this analysis, true?	12	took samples.				
13	A. Yes, that he is looking at	13	Q. If you'll listen to my				
14	the minerals that are associated with the	14	question. His I'm not asking you				
15	talc. Not necessarily the talc ore.	15	about commercial Italian talc in a				
16	Q. Well, it can be associated	16	general sense. I'm asking you about the				
17	with talc in the same ore body. Fair?	17	objective of his study. And he stated				
18	A. Ore body being what's	18	his objective in his report, true?				
19	extracted versus the surrounding rock	19	A. Well, I believe I answered				
20	would be different.	20	that question, that he is looking at				
21	Q. Well, asbestos minerals can	21	primarily samples surrounding the talc				
22	occur within talc formations, fair?	22	ore body in the Italian mine. So mine				
23	A. I would disagree to some	1	would mean that they're mining commercial				
24	extent with that statement. Because it	24	talc. And he's looking at the minerals				
	Page 111		Page 113				
1	very much depends on the origin of the	1	that are surrounding that ore body to				
2	talc and whether you're talking about the	2	understand whether they might contain				
3	actual mining zone of commercial high	3	things that could be problematic for that				
1	4 - 4 - 1 -						
-	grade talc.	4	commercial talc.				
	Q. In regard to Dr. Pooley's	5	commercial talc. Q. He is examining samples to				
5		5					
5 6 7	Q. In regard to Dr. Pooley's study in of Italian talc, he was studying not only talc, but those	5	Q. He is examining samples to				
5 6 7	Q. In regard to Dr. Pooley's study in of Italian tale, he was	5	Q. He is examining samples to identify minerals which occur in				
5 6 7	Q. In regard to Dr. Pooley's study in of Italian talc, he was studying not only talc, but those minerals associated with talc in the Italian mine, true?	5 6 7	Q. He is examining samples to identify minerals which occur in association with talc at the Italian mine, true? A. So.				
5 6 7 8 9	Q. In regard to Dr. Pooley's study in of Italian talc, he was studying not only talc, but those minerals associated with talc in the Italian mine, true? A. That that would be the	5 6 7 8	Q. He is examining samples to identify minerals which occur in association with talc at the Italian mine, true? A. So. Q. That's what he states?				
5 6 7 8 9	Q. In regard to Dr. Pooley's study in of Italian talc, he was studying not only talc, but those minerals associated with talc in the Italian mine, true? A. That that would be the minerals that are surrounding the talc	5 6 7 8 9	Q. He is examining samples to identify minerals which occur in association with talc at the Italian mine, true? A. So. Q. That's what he states? A. Association with talc at the				
5 6 7 8 9	Q. In regard to Dr. Pooley's study in of Italian talc, he was studying not only talc, but those minerals associated with talc in the Italian mine, true? A. That that would be the minerals that are surrounding the talc ore body. Not necessarily the minerals	5 6 7 8 9	Q. He is examining samples to identify minerals which occur in association with talc at the Italian mine, true? A. So. Q. That's what he states? A. Association with talc at the Italian mine means that they are				
5 6 7 8 9 10 11 12 13	Q. In regard to Dr. Pooley's study in of Italian talc, he was studying not only talc, but those minerals associated with talc in the Italian mine, true? A. That that would be the minerals that are surrounding the talc ore body. Not necessarily the minerals that are in the commercial talc.	5 6 7 8 9 10 11 12	Q. He is examining samples to identify minerals which occur in association with talc at the Italian mine, true? A. So. Q. That's what he states? A. Association with talc at the Italian mine means that they are surrounding the talc.				
5 6 7 8 9 10 11	Q. In regard to Dr. Pooley's study in of Italian talc, he was studying not only talc, but those minerals associated with talc in the Italian mine, true? A. That that would be the minerals that are surrounding the talc ore body. Not necessarily the minerals that are in the commercial talc. Q. Well you're speculating in	5 6 7 8 9 10 11 12	Q. He is examining samples to identify minerals which occur in association with talc at the Italian mine, true? A. So. Q. That's what he states? A. Association with talc at the Italian mine means that they are surrounding the talc. Q. If you'll turn to the next				
5 6 7 8 9 10 11 12 13 14 15	Q. In regard to Dr. Pooley's study in of Italian talc, he was studying not only talc, but those minerals associated with talc in the Italian mine, true? A. That that would be the minerals that are surrounding the talc ore body. Not necessarily the minerals that are in the commercial talc. Q. Well you're speculating in that sense. I'm asking you what he set	5 6 7 8 9 10 11 12 13 14 15	Q. He is examining samples to identify minerals which occur in association with talc at the Italian mine, true? A. So. Q. That's what he states? A. Association with talc at the Italian mine means that they are surrounding the talc. Q. If you'll turn to the next page, it lists the samples that				
5 6 7 8 9 10 11 12 13 14 15 16	Q. In regard to Dr. Pooley's study in of Italian talc, he was studying not only talc, but those minerals associated with talc in the Italian mine, true? A. That that would be the minerals that are surrounding the talc ore body. Not necessarily the minerals that are in the commercial talc. Q. Well you're speculating in that sense. I'm asking you what he set out to do in this report.	5 6 7 8 9 10 11 12 13 14 15	Q. He is examining samples to identify minerals which occur in association with talc at the Italian mine, true? A. So. Q. That's what he states? A. Association with talc at the Italian mine means that they are surrounding the talc. Q. If you'll turn to the next page, it lists the samples that Dr. Pooley examined. Sample I.5 was				
5 6 7 8 9 10 11 12 13 14 15 16 17	Q. In regard to Dr. Pooley's study in of Italian talc, he was studying not only talc, but those minerals associated with talc in the Italian mine, true? A. That that would be the minerals that are surrounding the talc ore body. Not necessarily the minerals that are in the commercial talc. Q. Well you're speculating in that sense. I'm asking you what he set out to do in this report. MR. CHACHKES: Objection.	5 6 7 8 9 10 11 12 13 14 15 16	Q. He is examining samples to identify minerals which occur in association with talc at the Italian mine, true? A. So. Q. That's what he states? A. Association with talc at the Italian mine means that they are surrounding the talc. Q. If you'll turn to the next page, it lists the samples that Dr. Pooley examined. Sample I.5 was general ore, meaning general talc ore,				
5 6 7 8 9 10 11 12 13 14 15 16 17	Q. In regard to Dr. Pooley's study in of Italian talc, he was studying not only talc, but those minerals associated with talc in the Italian mine, true? A. That that would be the minerals that are surrounding the talc ore body. Not necessarily the minerals that are in the commercial talc. Q. Well you're speculating in that sense. I'm asking you what he set out to do in this report. MR. CHACHKES: Objection. BY MS. O'DELL:	5 6 7 8 9 10 11 12 13 14 15 16 17	Q. He is examining samples to identify minerals which occur in association with talc at the Italian mine, true? A. So. Q. That's what he states? A. Association with talc at the Italian mine means that they are surrounding the talc. Q. If you'll turn to the next page, it lists the samples that Dr. Pooley examined. Sample I.5 was general ore, meaning general talc ore, fair?				
5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. In regard to Dr. Pooley's study in of Italian talc, he was studying not only talc, but those minerals associated with talc in the Italian mine, true? A. That that would be the minerals that are surrounding the talc ore body. Not necessarily the minerals that are in the commercial talc. Q. Well you're speculating in that sense. I'm asking you what he set out to do in this report. MR. CHACHKES: Objection. BY MS. O'DELL: Q. His	5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. He is examining samples to identify minerals which occur in association with talc at the Italian mine, true? A. So. Q. That's what he states? A. Association with talc at the Italian mine means that they are surrounding the talc. Q. If you'll turn to the next page, it lists the samples that Dr. Pooley examined. Sample I.5 was general ore, meaning general talc ore, fair? A. Yes.				
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. In regard to Dr. Pooley's study in of Italian talc, he was studying not only talc, but those minerals associated with talc in the Italian mine, true? A. That that would be the minerals that are surrounding the talc ore body. Not necessarily the minerals that are in the commercial talc. Q. Well you're speculating in that sense. I'm asking you what he set out to do in this report. MR. CHACHKES: Objection. BY MS. O'DELL: Q. His MS. O'DELL: Let me finish.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. He is examining samples to identify minerals which occur in association with talc at the Italian mine, true? A. So. Q. That's what he states? A. Association with talc at the Italian mine means that they are surrounding the talc. Q. If you'll turn to the next page, it lists the samples that Dr. Pooley examined. Sample I.5 was general ore, meaning general talc ore, fair? A. Yes. Q. He looked at I.7 which was				
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. In regard to Dr. Pooley's study in of Italian talc, he was studying not only talc, but those minerals associated with talc in the Italian mine, true? A. That that would be the minerals that are surrounding the talc ore body. Not necessarily the minerals that are in the commercial talc. Q. Well you're speculating in that sense. I'm asking you what he set out to do in this report. MR. CHACHKES: Objection. BY MS. O'DELL: Q. His MS. O'DELL: Let me finish. MR. CHACHKES: I thought you	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. He is examining samples to identify minerals which occur in association with talc at the Italian mine, true? A. So. Q. That's what he states? A. Association with talc at the Italian mine means that they are surrounding the talc. Q. If you'll turn to the next page, it lists the samples that Dr. Pooley examined. Sample I.5 was general ore, meaning general talc ore, fair? A. Yes. Q. He looked at I.7 which was mica schist specimen?				
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. In regard to Dr. Pooley's study in of Italian talc, he was studying not only talc, but those minerals associated with talc in the Italian mine, true? A. That that would be the minerals that are surrounding the talc ore body. Not necessarily the minerals that are in the commercial talc. Q. Well you're speculating in that sense. I'm asking you what he set out to do in this report. MR. CHACHKES: Objection. BY MS. O'DELL: Q. His MS. O'DELL: Let me finish. MR. CHACHKES: I thought you were done. Sorry.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. He is examining samples to identify minerals which occur in association with talc at the Italian mine, true? A. So. Q. That's what he states? A. Association with talc at the Italian mine means that they are surrounding the talc. Q. If you'll turn to the next page, it lists the samples that Dr. Pooley examined. Sample I.5 was general ore, meaning general talc ore, fair? A. Yes. Q. He looked at I.7 which was mica schist specimen? A. Which is not the talc ore.				
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. In regard to Dr. Pooley's study in of Italian talc, he was studying not only talc, but those minerals associated with talc in the Italian mine, true? A. That that would be the minerals that are surrounding the talc ore body. Not necessarily the minerals that are in the commercial talc. Q. Well you're speculating in that sense. I'm asking you what he set out to do in this report. MR. CHACHKES: Objection. BY MS. O'DELL: Q. His MS. O'DELL: Let me finish. MR. CHACHKES: I thought you were done. Sorry. BY MS. O'DELL:	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. He is examining samples to identify minerals which occur in association with talc at the Italian mine, true? A. So. Q. That's what he states? A. Association with talc at the Italian mine means that they are surrounding the talc. Q. If you'll turn to the next page, it lists the samples that Dr. Pooley examined. Sample I.5 was general ore, meaning general talc ore, fair? A. Yes. Q. He looked at I.7 which was mica schist specimen? A. Which is not the talc ore. Q. I'm just asking if you				
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. In regard to Dr. Pooley's study in of Italian talc, he was studying not only talc, but those minerals associated with talc in the Italian mine, true? A. That that would be the minerals that are surrounding the talc ore body. Not necessarily the minerals that are in the commercial talc. Q. Well you're speculating in that sense. I'm asking you what he set out to do in this report. MR. CHACHKES: Objection. BY MS. O'DELL: Q. His MS. O'DELL: Let me finish. MR. CHACHKES: I thought you were done. Sorry.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. He is examining samples to identify minerals which occur in association with talc at the Italian mine, true? A. So. Q. That's what he states? A. Association with talc at the Italian mine means that they are surrounding the talc. Q. If you'll turn to the next page, it lists the samples that Dr. Pooley examined. Sample I.5 was general ore, meaning general talc ore, fair? A. Yes. Q. He looked at I.7 which was mica schist specimen? A. Which is not the talc ore.				

	on, Ph.D.		
Page 114	Page 116		
¹ A. So I see that he lists I.7,	¹ microcline, plagioclase, biotite, pennine		
² mica schist specimen	² epidote, clinozoisite" do you know how		
Q. So the answer to my question	³ to say that? Clinozoisite?		
4 was yes?	4 A. You know, my copy is so		
⁵ A. Could you repeat your	⁵ smudged, I can't read it.		
⁶ question for me.	6 Q. Okay.		
⁷ Q. My question was, he looked	"hornblende, and then		
⁸ at a Sample I.7, and it was he	8 actinolite."		
⁹ identified it as mica schist specimen?	Do you see that?		
A. That's what it says.	A. I see those.		
Q. He looked examined sample	Q. Were what he referred to as		
12 I.19 which was tremolite, quartz and talc	¹² minor or accessory minerals within the		
in one sample?	¹³ deposit, true?		
A. That's what it says.	A. Within the talc deposits, he		
Q. I.24 was also a talc sample.	15 is listing a range of specimens here		
16 It says it's next to carbonate face 2?	which may or may not again be in the talc		
A. That's what it says.	17 ore. It could be in the surrounding		
Q. So examined talc in that	18 rock.		
19 sample, true?	Q. And it could also be in the		
A. That's what it says.	²⁰ talc ore, fair?		
Q. And if you'll turn to the	A. We would have to look at the		
²² next page, he looked at a sample that he	²² specimens that came specifically from the		
²³ identified as I.41 which was described as	²³ talc ore.		
²⁴ "face 2, good specimen."	Q. Is it agreed that within in		
Page 115	5 Page 117		
_			
Do you see that.	the specimens that he examined and		
A. I see what it says there.	 reported on in Exhibit 8, Dr. Pooley found tremolite? True? 		
Q. If you'll turn over to rage			
4 \$6 of Exhibit 8. He gives a summary in	4 A. Could you repeat that		
5 part of the method he used. 6 And then he goes onto	⁵ question for me? ⁶ Or Propoley found tremplite		
And then he goes onto	Q. Di. I obicy found demonic		
7 different a description of some of the 8 constituents. Begin in the first	7 in the specimens that he examined and		
8 constituents. Begin in the first 9 paragraph he says, "Thin and polished	 8 reported on in Exhibit 8? 9 A. So we would want to look at 		
properties of the specimens	 the specific specimens and see which ones listed tremolite. 		
of wallrock and, where possible, the talc ore."			
	Q. Are you disputing that he		
Do you see that? A. I see where it says that.	reported that he found tremolite withinthese samples?		
A. I see where it says that. Q. And it goes on to say, "The	15 A. I would want to look at each		
¹⁶ minerals which formed a major constituent	A. I would want to look at each specific specimen to see what each one		
in at least one of the sections were	specific specimen to see what each one said.		
¹⁸ quartz, muscovite, talc, chlorite (var			
sheridanite), calcite, garnet and	Q. So you can't agree with that, just based on your knowledge of the		
20 tremolite."	document?		
Do you see that?	21 A. I would want because he		
Do you see that.	has a number of specimens here, I would		
22 $^{\Delta}$ $^{\mathrm{Ves}}$			
A. 1 CS.	=		
A. Yes. Q. It goes on to say, "Phases which were always minor or accessory were	 want to know what each one said. Q. Just sitting here today, you 		

	Maage B. 196	932	n, Ph.D. 1720/24 1 ago 62 01 30
	Page 118		Page 120
1	can't tell us whether Dr. Pooley reported	1	A. Yes, yes.
	that he found tremolite or actinolite	2	Q. And you would agree that
	within the specimens that he examined and	3	there were inclusions in the specimen I.5
	reported on in Exhibit 8?	4	of general talc ore, which had what
5	A. Well, we can go through the	5	appears to be some metamorphous of
6		6	tremolite, true?
7	± •	7	A. So he's saying that the
8	A. We can do that.	8	inclusion has been converted to talc.
9	Q. And we're going to go	9	Q. "As in conversion of
10		10	tremolite to tale by low temperature CO2
11		11	
12	that one way or the other?	12	Do you see that?
13	A. Well, I would again be very	13	A. That's where I see that
14	clear about looking at each analysis.	14	sentence.
15	Q. Turn to Page 6 of his	15	Q. And those inclusions
16	report. It's at the top. It's Page 6.	16	MR. CHACHKES: I'm just
17		17	going to object. I think you
18	A. Are you sure it's 6 or 8?	18	misread. I see "CO2,
19		19	metasomatism."
20		20	MS. O'DELL: That's fair.
21	could be 8. It's eight. Sorry. Looked like as you mentioned, this is not the	21	That's fair. Not intentional.
22	•	22	BY MS. O'DELL:
23	best copy. Are you there?	23	
24	•		Q. So tremolite, according to
24	A. And can you repeat the Bates	24	Dr. Pooley, had been present and it had
	Page 119		Page 121
1	Page 119 number for me?	1	Page 121 converted at least to some degree, maybe
1 2	-		_
	number for me?		converted at least to some degree, maybe
2	number for me? Q. 361.	2	converted at least to some degree, maybe not completely, but to some degree, to
3	number for me? Q. 361. A. 361 yes.	3	converted at least to some degree, maybe not completely, but to some degree, to talc, fair?
3 4	number for me? Q. 361. A. 361 yes. Q. He is describing what he	3	converted at least to some degree, maybe not completely, but to some degree, to talc, fair? A. That seems to be his
2 3 4 5	number for me? Q. 361. A. 361 yes. Q. He is describing what he found with specimen I.5, general ore. Do you see that?	2 3 4 5	converted at least to some degree, maybe not completely, but to some degree, to talc, fair? A. That seems to be his conclusion here.
2 3 4 5	number for me? Q. 361. A. 361 yes. Q. He is describing what he found with specimen I.5, general ore. Do you see that?	2 3 4 5 6	converted at least to some degree, maybe not completely, but to some degree, to talc, fair? A. That seems to be his conclusion here. Q. If you'll turn over to Page
2 3 4 5 6	number for me? Q. 361. A. 361 yes. Q. He is describing what he found with specimen I.5, general ore. Do you see that? A. I see that. Q. And he reports that, "A	2 3 4 5 6 7	converted at least to some degree, maybe not completely, but to some degree, to talc, fair? A. That seems to be his conclusion here. Q. If you'll turn over to Page 11 of his report, Bates ending 364, he
2 3 4 5 6 7 8	number for me? Q. 361. A. 361 yes. Q. He is describing what he found with specimen I.5, general ore. Do you see that? A. I see that. Q. And he reports that, "A coarse aggregate of curving foliaceous	2 3 4 5 6 7 8	converted at least to some degree, maybe not completely, but to some degree, to talc, fair? A. That seems to be his conclusion here. Q. If you'll turn over to Page 11 of his report, Bates ending 364, he reports on his finding in relation to
2 3 4 5 6 7 8 9	number for me? Q. 361. A. 361 yes. Q. He is describing what he found with specimen I.5, general ore. Do you see that? A. I see that. Q. And he reports that, "A coarse aggregate of curving foliaceous	2 3 4 5 6 7 8	converted at least to some degree, maybe not completely, but to some degree, to talc, fair? A. That seems to be his conclusion here. Q. If you'll turn over to Page 11 of his report, Bates ending 364, he reports on his finding in relation to Specimen I.7.
2 3 4 5 6 7 8 9 10	number for me? Q. 361. A. 361 yes. Q. He is describing what he found with specimen I.5, general ore. Do you see that? A. I see that. Q. And he reports that, "A coarse aggregate of curving foliaceous and feathery crystals of talc displaying	2 3 4 5 6 7 8 9	converted at least to some degree, maybe not completely, but to some degree, to talc, fair? A. That seems to be his conclusion here. Q. If you'll turn over to Page 11 of his report, Bates ending 364, he reports on his finding in relation to Specimen I.7. Do you see that?
2 3 4 5 6 7 8 9 10	number for me? Q. 361. A. 361 yes. Q. He is describing what he found with specimen I.5, general ore. Do you see that? A. I see that. Q. And he reports that, "A coarse aggregate of curving foliaceous and feathery crystals of talc displaying evidence of shearing and translation twinning. As in Specimen I.3, dusty	2 3 4 5 6 7 8 9 10	converted at least to some degree, maybe not completely, but to some degree, to talc, fair? A. That seems to be his conclusion here. Q. If you'll turn over to Page 11 of his report, Bates ending 364, he reports on his finding in relation to Specimen I.7. Do you see that? A. I see I.7.
2 3 4 4 5 6 7 8 9 10 11 12 13	number for me? Q. 361. A. 361 yes. Q. He is describing what he found with specimen I.5, general ore. Do you see that? A. I see that. Q. And he reports that, "A coarse aggregate of curving foliaceous and feathery crystals of talc displaying evidence of shearing and translation twinning. As in Specimen I.3, dusty	2 3 4 5 6 7 8 9 10 11 12	converted at least to some degree, maybe not completely, but to some degree, to talc, fair? A. That seems to be his conclusion here. Q. If you'll turn over to Page 11 of his report, Bates ending 364, he reports on his finding in relation to Specimen I.7. Do you see that? A. I see I.7. Q. And it says, "This specimen
2 3 4 4 5 6 6 7 8 9 10 11 12 13 14	number for me? Q. 361. A. 361 yes. Q. He is describing what he found with specimen I.5, general ore. Do you see that? A. I see that. Q. And he reports that, "A coarse aggregate of curving foliaceous and feathery crystals of talc displaying evidence of shearing and translation twinning. As in Specimen I.3, dusty inclusions of transparent mineral with a	2 3 4 5 6 7 8 9 10 11 12 13	converted at least to some degree, maybe not completely, but to some degree, to talc, fair? A. That seems to be his conclusion here. Q. If you'll turn over to Page 11 of his report, Bates ending 364, he reports on his finding in relation to Specimen I.7. Do you see that? A. I see I.7. Q. And it says, "This specimen of wallrock is quartz-muscovite-garnet
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	number for me? Q. 361. A. 361 yes. Q. He is describing what he found with specimen I.5, general ore. Do you see that? A. I see that. Q. And he reports that, "A coarse aggregate of curving foliaceous and feathery crystals of talc displaying evidence of shearing and translation twinning. As in Specimen I.3, dusty inclusions of transparent mineral with a general prismatic habit occurs dispersed in the talc. As before, but to a lesser extent, the talc is cleansed of these inclusions along zones associated with deformation and translation twinning, and it appears that the inclusions" he's	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	converted at least to some degree, maybe not completely, but to some degree, to talc, fair? A. That seems to be his conclusion here. Q. If you'll turn over to Page 11 of his report, Bates ending 364, he reports on his finding in relation to Specimen I.7. Do you see that? A. I see I.7. Q. And it says, "This specimen of wallrock is quartz-muscovite-garnet schist" he identifies certain figures "containing some accessory actinolite, Brown hornblende, talc, and rare biotite." Did I read that correctly?
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2 3 3 4 5 6 6 7 8 8 9 100 111 122 133 144 155 166 177 18 19 20 21	number for me? Q. 361. A. 361 yes. Q. He is describing what he found with specimen I.5, general ore. Do you see that? A. I see that. Q. And he reports that, "A coarse aggregate of curving foliaceous and feathery crystals of talc displaying evidence of shearing and translation twinning. As in Specimen I.3, dusty inclusions of transparent mineral with a general prismatic habit occurs dispersed in the talc. As before, but to a lesser extent, the talc is cleansed of these inclusions along zones associated with deformation and translation twinning, and it appears that the inclusions" he's talking about these prismatic inclusions have either been converted	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	converted at least to some degree, maybe not completely, but to some degree, to talc, fair? A. That seems to be his conclusion here. Q. If you'll turn over to Page 11 of his report, Bates ending 364, he reports on his finding in relation to Specimen I.7. Do you see that? A. I see I.7. Q. And it says, "This specimen of wallrock is quartz-muscovite-garnet schist" he identifies certain figures "containing some accessory actinolite, Brown hornblende, talc, and rare biotite." Did I read that correctly? A. I believe so. Q. And in I.7 Dr. Pooley identified actinolite. Fair?
2 3 3 4 5 6 6 7 8 8 9 100 111 122 133 144 155 166 177 188 199 200 21 222	Q. 361. A. 361 yes. Q. He is describing what he found with specimen I.5, general ore. Do you see that? A. I see that. Q. And he reports that, "A coarse aggregate of curving foliaceous and feathery crystals of talc displaying evidence of shearing and translation twinning. As in Specimen I.3, dusty inclusions of transparent mineral with a general prismatic habit occurs dispersed in the talc. As before, but to a lesser extent, the talc is cleansed of these inclusions along zones associated with deformation and translation twinning, and it appears that the inclusions" he's talking about these prismatic inclusions have either been converted to talc (as in conversion of tremolite to talc by low temperature)."	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	converted at least to some degree, maybe not completely, but to some degree, to talc, fair? A. That seems to be his conclusion here. Q. If you'll turn over to Page 11 of his report, Bates ending 364, he reports on his finding in relation to Specimen I.7. Do you see that? A. I see I.7. Q. And it says, "This specimen of wallrock is quartz-muscovite-garnet schist" he identifies certain figures "containing some accessory actinolite, Brown hornblende, talc, and rare biotite." Did I read that correctly? A. I believe so. Q. And in I.7 Dr. Pooley identified actinolite. Fair? A. He says some accessory

ase .	3.16-IIId-02/38-MAS-RLS M	Page D. 19653.	31, Ph.D.
		Page 122	Page 124
1	to Page 32 of his report. Bates 1	number 1	of fibrous tale.
2	4		Q. And if you'll go to Page 83
3		-	of the document. Bates number ending
4	to carbonate.	4	
5	A. Mm-hmm.	5	
6	Q. Do you see that?	6	
7	A. I do.	7	
8		ecimen 8	
9	of talc ore consists dominantly of		
10	The second secon		
11		11	
12	Do you see that?	12	
13		13	
14	Q. And so in that sample	of 14	
15			
16	true?	16	Q. And this is a specimen of
17	A. He identifies fibrous ta	alc.	
18	Q. Okay. He identifies fil	brous 18	A. That's what it says.
19		19	Q. And it says, "This specimen
20	A. He identifies fibrous ta	alc.	
21	Q. If you'll turn to we'v	re 21	of feathery talc intimately intergrown
22	got to go back two pages. Sorry	y, I 22	with minor chlorite" it says V-A-R
23	skipped one I intended to mention	on, and	period "sheridanite, and enclosing
24	that's on Page 28. Specimen I.1	9.	rare large porphyroblasts of subhedral
		Page 123	Page 125
1	Do you see that?	_	garnet which occasionally contain long
2	A. Could you just confirm	_	
3	let's see. Specimen, Page 28, th		
4	specimen consists. Okay.	4	
5	· _	en I 19	
6	and he states, "This specimen co	711 1.17	instance where talc ore was found to
7	an aggregate of course grain and		include tremolite, true?
8			
9	crystals and crystal aggregates of		
10			
11			
12	grains of quartz."	12	
13		13	
14		14	
15	Q. And then he goes he	has a	
16			
17			
18	bladed tremolite intergrown with		
19		19	
20		20	* *
21		remolite 21	
22	-	22	
23		ystal 23	
24			
			<u>-</u>

Mpagelb. 190534, Ph.D.						
	Page 126		Page 128			
1	material within the samples that that	1	you want to.			
1	he reported on Exhibit 8?	2	Q. Are you aware that there			
3	A. So fibrous is not the same	3	have been other tests in addition to			
4	as asbestiform.		Dr. Pooley that have reported finding			
5	Q. How do you distinguish the	5	tremolite in samples taken from the			
6	two?	6	Italian mine used to source J&J Baby			
7	A. So asbestiform means that	1	Powder?			
8	the crystals are fibrils that have high	8	A. My recollection is Battelle			
9	•		· · · · · · · · · · · · · · · · · · ·			
10	tensile strength and flexibility and no	1	9 found tremolite, and we can look at those			
	lateral connection between fibrils. So		specific test results.			
1	that the fibrils can be separated from	11	Q. And are you aware of test			
	each other. That's not the same as		results from the examination of Italian			
	fibrous.		talc that also reported the presence of			
14	Q. Fibrous let me strike		actinolite?			
15	that and start again.	15	A. So I I want to be careful			
16	Dr. Pooley did report on	16	that I make a distinction between what is			
17	finding fibrous material within the	17	called Italian talc for testing and what			
18	samples that he reported on in Exhibit 8,	18	is considered the ore zone that was used			
19	true?	19	for production and the fact that			
20	A. He listed fibrous talc.	20	actinolite and tremolite are not			
21	Q. So the answer to my question	21	asbestos.			
22	is yes, he did report fibrous material in	22	Q. They can be asbestos.			
	Exhibit 8?	23	A. There are asbestiform			
24	A. So he he did list fibrous	24	varieties, but they are called tremolite			
	Page 127		Page 129			
1	talc.	1	asbestos and actinolite asbestos.			
2	Q. And he also, you would	2	Q. And historically, in reports			
3	agree, reported the finding of finding	3	of asbestos testing, actinolite with the			
4	tremolite as well as actinolite within	4	word asbestos has not always been			
5	these samples?	5	included for purposes of reporting			
6	A. He reported finding	6	6 asbestiform			
7	tremolite and actinolite.	7	MR. CHACHKES: Objection.			
8	Q. And are you aware that	8	BY MS. O'DELL:			
9	tremolite has been found in other tests	9	Q true?			
10	of Italian talc?	10	A. That I don't know.			
11		1				
		11				
12	MR. CHACHKES: Objection.	l	Q. In Dr. Pooley's report			
	MR. CHACHKES: Objection. THE WITNESS: What other	12	Q. In Dr. Pooley's report well, let me back up and say, you state			
12 13	MR. CHACHKES: Objection. THE WITNESS: What other Italian talc would we be talking	12	Q. In Dr. Pooley's report well, let me back up and say, you state in your report that claims strike			
12 13 14	MR. CHACHKES: Objection. THE WITNESS: What other Italian talc would we be talking about?	12 13 14	Q. In Dr. Pooley's report well, let me back up and say, you state in your report that claims strike that. Start again.			
12 13 14 15	MR. CHACHKES: Objection. THE WITNESS: What other Italian talc would we be talking about? BY MS. O'DELL:	12 13 14 15	Q. In Dr. Pooley's report well, let me back up and say, you state in your report that claims strike that. Start again. You state in your report,			
12 13 14 15 16	MR. CHACHKES: Objection. THE WITNESS: What other Italian talc would we be talking about? BY MS. O'DELL: Q. Let me just ask a more	12 13 14 15 16	Q. In Dr. Pooley's report well, let me back up and say, you state in your report that claims strike that. Start again. You state in your report, "Specimens collected in the hanging wall,			
12 13 14 15 16 17	MR. CHACHKES: Objection. THE WITNESS: What other Italian talc would we be talking about? BY MS. O'DELL: Q. Let me just ask a more specific question.	12 13 14 15 16 17	Q. In Dr. Pooley's report well, let me back up and say, you state in your report that claims strike that. Start again. You state in your report, "Specimens collected in the hanging wall, in the football of" "of the ore body,			
12 13 14 15 16 17	MR. CHACHKES: Objection. THE WITNESS: What other Italian talc would we be talking about? BY MS. O'DELL: Q. Let me just ask a more specific question. Are you aware of historical	12 13 14 15 16 17 18	Q. In Dr. Pooley's report well, let me back up and say, you state in your report that claims strike that. Start again. You state in your report, "Specimens collected in the hanging wall, in the football of" "of the ore body, are not concerning because essentially			
12 13 14 15 16 17 18	MR. CHACHKES: Objection. THE WITNESS: What other Italian talc would we be talking about? BY MS. O'DELL: Q. Let me just ask a more specific question. Are you aware of historical tests that report finding tremolite in	12 13 14 15 16 17 18	Q. In Dr. Pooley's report well, let me back up and say, you state in your report that claims strike that. Start again. You state in your report, "Specimens collected in the hanging wall, in the football of" "of the ore body, are not concerning because essentially the selected mining methods used would			
12 13 14 15 16 17 18 19 20	MR. CHACHKES: Objection. THE WITNESS: What other Italian talc would we be talking about? BY MS. O'DELL: Q. Let me just ask a more specific question. Are you aware of historical tests that report finding tremolite in talc from mines in Italy that were used	12 13 14 15 16 17 18 19	Q. In Dr. Pooley's report well, let me back up and say, you state in your report that claims strike that. Start again. You state in your report, "Specimens collected in the hanging wall, in the football of" "of the ore body, are not concerning because essentially the selected mining methods used would ensure that actinolite or tremolite would			
12 13 14 15 16 17 18 19 20 21	MR. CHACHKES: Objection. THE WITNESS: What other Italian talc would we be talking about? BY MS. O'DELL: Q. Let me just ask a more specific question. Are you aware of historical tests that report finding tremolite in talc from mines in Italy that were used to source Johnson & Johnson's Baby Powder	12 13 14 15 16 17 18 19 20 21	Q. In Dr. Pooley's report well, let me back up and say, you state in your report that claims strike that. Start again. You state in your report, "Specimens collected in the hanging wall, in the football of" "of the ore body, are not concerning because essentially the selected mining methods used would ensure that actinolite or tremolite would not contaminate the ore used in the			
12 13 14 15 16 17 18 19 20 21 22	MR. CHACHKES: Objection. THE WITNESS: What other Italian talc would we be talking about? BY MS. O'DELL: Q. Let me just ask a more specific question. Are you aware of historical tests that report finding tremolite in talc from mines in Italy that were used to source Johnson & Johnson's Baby Powder and Shower to Shower?	12 13 14 15 16 17 18 19 20 21 22	Q. In Dr. Pooley's report well, let me back up and say, you state in your report that claims strike that. Start again. You state in your report, "Specimens collected in the hanging wall, in the football of" "of the ore body, are not concerning because essentially the selected mining methods used would ensure that actinolite or tremolite would not contaminate the ore used in the product," is that a long way of saying			
12 13 14 15 16 17 18 19 20 21 22 23	MR. CHACHKES: Objection. THE WITNESS: What other Italian talc would we be talking about? BY MS. O'DELL: Q. Let me just ask a more specific question. Are you aware of historical tests that report finding tremolite in talc from mines in Italy that were used to source Johnson & Johnson's Baby Powder	12 13 14 15 16 17 18 19 20 21 22 23	Q. In Dr. Pooley's report well, let me back up and say, you state in your report that claims strike that. Start again. You state in your report, "Specimens collected in the hanging wall, in the football of" "of the ore body, are not concerning because essentially the selected mining methods used would ensure that actinolite or tremolite would not contaminate the ore used in the			

Page 132 Page 130 A. You may have lost me. I was ¹ without any further information on your ² looking at my report while you were part would be speculation, fair? ³ talking. I apologize. MR. LOCKE: Objection. Q. All right. 4 THE WITNESS: So we could go A. So maybe we could just read back and look at more what my report says. descriptions. Q. So where -- so what were you BY MS. O'DELL: looking at in your report? O. He described that as talc A. I was looking at the ore, true? paragraph on Page 6 that says, "and in 10 A. That's the phrase he used. 11 fact." ¹¹ But again, ore doesn't necessarily mean that it is actually in a production area. Is -- is that the section 13 You do --¹³ you were referring to? Q. No, actually. But you state 14 Q. Maybe, maybe not. 15 just below that, you state in the next 15 A. You do waste some ore. ¹⁶ paragraph, you say, "The report," and Q. I understand. Maybe, or ¹⁷ you're referring to Pooley's report, maybe not. That's the most you can say? ¹⁸ Exhibit 8, "makes clear that no A. Well, I would, again, want to go through the report and look 19 asbestiform minerals were found." 20 specifically at where he later summarized And we've all -- you said ²¹ there's no asbestiform minerals that may ²¹ those samples. ²² or may not be described, but certainly Q. Okay. If -- and an ore by 23 there were fibrous material within the --²³ your definition is material for sale, ²⁴ the samples, we've agreed on that, right? 24 true? Page 131 Page 133 A. There was fibrous talc A. Yes, generally. Q. You go on to say, "Some described. specimens were collected in the hanging Q. And -- and "any ⁴ non-asbestiform amphiboles identified ⁴ wall, but the method of mining, which ⁵ were not located in ore typical of ⁵ consisted of hand-filling methods, ⁶ production." That's what you write. precluded any gross contamination of the Yet we've identified today ore." some talc ore that did, in fact, have Is what you -- that's what tremolite, true? you state? 10 A. So we would want to look at 10 A. That's a quote from the 11 the location of those specimens to make ¹¹ report. sure even though they said ore, that was Q. Right. And it goes on to say that, "By virtue of the fact that ¹³ considered in a production area. they were in the hanging wall, they would O. He called them talc ore? not be included in the material that A. Well, that doesn't ultimately was bottled as Johnson & 16 necessarily mean that they would be in a production area. ¹⁷ Johnson's Baby Powder and Shower to 18 Q. Dr. Pooley referred to them 18 Shower. as talc ore, true? That's your -- that's your opinion? A. He said ore, but that does A. So the hanging wall is ²¹ not necessarily equate to production outside the ore zone by definition. areas. Q. Does it mean that material Q. Maybe, maybe not. To ²⁴ from a hanging wall cannot be included in ²⁴ suggest otherwise sitting here today

15E (5.10-110-02738-MAS-RLS Document 345 PageID: 190	90-5 Filed 07/23/24 Sh , Ph.D.	rage 30 or 90	
	Page 134	00	Page 136	
1	what's extracted from the mine, true?	1 A. I assume that's	true, since	
2	A. So you would mine within a	2 it was marked as an exh		
3	margin away from that.	Q. Do you know	who he is?	
4	Q. But my question is, it	A. I don't know w		
5	doesn't mean that the material from the	Do you have y	ou read his	
6	hanging wall was not included in what was	6 deposition?		
7	ultimately bottled for Johnson &	A. I only had one	page of it.	
8	Johnson's Baby Powder, true?	8 Q. What page of t		
9	A. So the mining practices	⁹ did you have?	•	
10	would make every attempt to stay away	A. I'd have to actu	ually look at	
11		my files to see which pa		
12	hard to process.	Q. So you did not	see the whole	
13	So is it completely	deposition?		
14	theoretically hypothetically possible	A. I did not see the	ne whole	
15	some of that material could be commingled	deposition.		
16	with talc ore taken to a mill, maybe.	Q. And so if it list	ts the whole	
17	Q. And you cannot say to a	deposition on your relia	nce materials,	
18	reasonable degree of scientific certainty	that would be inaccurate; you only		
19	that that did not occur, can you?	received one page?		
20	A. I wasn't there.	A. I only saw one	page that	
21	MR. CHACHKES: Tell me when	came with the Cook and	l Krekeler	
22	you reach a wrapping-up point,	documents. It's possible that it was		
23	because we're probably going to	²³ uploaded to my box, and I missed it. But		
24	have lunch at 12:15.	I only saw, in my docur	nents, the one	
	Page 135		Page 137	
1	MS. O'DELL: Give me just a	1 page.		
2	few minutes.	Q. Did you exami	ine all of the	
3	BY MS. O'DELL:	3 exhibits that were identified as Hopkins		
4	Q. Are you okay for another few	deposition exhibits?		
5	minutes, Doctor?	5 A. I looked at the ones that		
6	A. A few. Not 30.	6 were germane to my ass	signment, which was	
7	Q. Okay. I'll be brief. Let	mining and beneficiation.		
8	me ask you to look at what's previously	8 Q. Which was reviewing Dr. Cook		
9	been marked as Hopkins Exhibit 28.	⁹ and Krekeler's reports.		
10	Have you seen that before?	weren't referred to in Di	Cook and	
11	A. I believe so.	Dr. Krekeler's reports sp	pecifically, it	
12	Q. And are you aware that	would be fair to say that	t you did not	
13	that this exhibit, Hopkins-28 was a	review those?		
14	product of the examination of Dr. John	A. Correct, unless I requested		
15	Hopkins, who is a corporate	them for some reason.		
16	representative for Johnson & Johnson?	Q. Okay. And if	-	
17	MR. CHACHKES: Objection.	Hopkins Exhibit 28, he	lists here a	
18	THE WITNESS: I actually	¹⁸ 10/15 or October 15,	•	
19	don't know how it was produced. I	¹⁹ Battelle. And if you'll l		
20	just know that it was an exhibit I	right, it says that that is		
21	received.	talc. And the test reveal	·	
22	BY MS. O'DELL:	²² "Italian talc averages ab	-	
23	Q. And it was an exhibit to	²³ fibrous or acicular partic	cles."	
	Y 1 YY 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
24	John Hopkins' deposition, true?	Did I read that of		

Page 140 Page 138 That's what it says. ¹ within those specimens as reported in And is that consistent with ² Exhibit 8, he found tremolite, true? ³ your understanding of the Battelle ³ We've been through this. ⁴ testing document -- documents? MR. CHACHKES: Objection. A. I would want to go back and BY MS. O'DELL: 6 look at that Battelle document, because Q. Today. So he reported ⁷ they tested a number of things. And I tremolite, fair? ⁸ don't actually remember which Battelle A. He -- he reported tremolite document was which. in some of his studies, yes. 10 Q. If you'll look forward one Q. And in the test results from Battelle dated May the 9th of processed ¹¹ line to May 9th, 1958, Exhibit J&J-1, also Battelle testing document, of talc Italian talc, tremolite was also found, 13 from the Val Chisone mine, and it was true? 14 processed Italian talc. A. That's what it says. 15 15 And if you'll look further Do you see that? 16 at May 23rd, 1958, was the date of the A. I see that. test, also Battelle testing of processed O. Processed Italian talc would ¹⁸ be talc ore that has gone through Italian talc from the Val Chisone mine, beneficiation and is essentially is ready tremolite was found, true? 20 for bottling, true? A. True. 21 A. I don't know how they define Q. And 6 to 10 percent fibrous processed talc. 22 talc. 23 23 Q. It would be fair to say that Did I read that correctly? ²⁴ processed talc would be part of the talc That's what it says. Page 139 Page 141 ¹ ore, true? Q. And then in terms of 2 MR. CHACHKES: Objection. ² Dr. Pooley's testing and the results 3 ³ where he found tremolite in the specimens THE WITNESS: I believe --⁴ that he looked at, those results are 4 MR. CHACHKES: Sorry. Go 5 ahead. Objection. ⁵ consistent with what Battelle found in ⁶ its examination of Italian talc, true? 6 THE WITNESS: I believe so. BY MS. O'DELL: A. I may be comparing apples and oranges, and to answer that again, I Q. And it says the test would just want to be very careful as to revealed tremolite. 10 Do you see that? ¹⁰ where Battelle samples came from relative 11 A. I see that. ¹¹ to where Pooley samples came from. And we would also want to know whether O. And that was consistent with processed talc meant that Battelle ground ¹³ Dr. Pooley's results as reported in ¹⁴ Exhibit 8, true? Where Dr. Pooley also 14 it to some specification, or if somehow ¹⁵ found tremolite in specimens taken from it was processed by Johnson & Johnson. ¹⁶ the Italian mine, true? 16 Q. And in your mind, that would 17 A. So we would basically want make a difference? 18 to look at some more information as to A. It could. There could be ¹⁹ where samples were collected before beneficiation steps that were missing ²⁰ making a generalization that they were between actual production versus a ²¹ from exactly the same area. ²¹ laboratory test. Q. I didn't say that. I said Q. Is it your opinion to a 23 it was from the Italian mine. Dr. Pooley ²³ reasonable degree of scientific certainty

²⁴ took specimens from the Italian mine, and

24 that asbestos found in talc can be

	13.10-1110-02/38-MAS-RLS DOCUMENT 34. Page ID: 190	6 84	n, Ph.D.
	Page 142		Page 144
1	removed through a beneficiation process?	1	BY MS. O'DELL:
2	MR. CHACHKES: Objection.	2	Q. This correlates with J&J-1,
3	THE WITNESS: So the	3	which is the May 9, 1958, test that we
4	question is could asbestos be		just discussed.
5	removed through beneficiation?	5	A. Okay.
6	BY MS. O'DELL:	6	Q. Do you see that?
7	Q. Yes.	7	A. I do.
8	A. Okay. There are several	8	Q. If you'll turn to Bates
9	steps where it can be removed.	9	number ending 911.
10	Q. Can it be completely	10	A. Okay.
	removed?	11	Q. At the bottom, last
12	A. I don't know, depending on	12	paragraph, "The measurements presented in
13	the concentration and the processing		this report were made on the same samples
	steps used. I would want to see data.		of EGT Extra 0000 tale obtained from
15	Q. Have you examined well,		Cranford, New Jersey, plant which was
16	•		used in the work previously reported."
17		17	So this is beneficiated talc
18	When you talk about		that has been through the Johnson &
	processed Italian tale and you say		Johnson plant, correct?
20	-	20	MR. CHACHKES: Just for the
21		21	
22	was the process from that might have	22	record the record, you left out
	been undertaken by Battelle versus Johnson & Johnson. Let's focus on that.	23	"except where otherwise noted."
24		24	MS. O'DELL: Okay. Fair
24	The material that was tested	24	enough.
	Page 143		Page 145
1	Page 143 was processed Italian talc. And is it	1	Page 145 BY MS. O'DELL:
	_	1 2	_
	was processed Italian talc. And is it your belief that that does not mean talc	2	BY MS. O'DELL: Q. So this is beneficiated or
3	was processed Italian talc. And is it your belief that that does not mean talc	2	BY MS. O'DELL: Q. So this is beneficiated or
3	was processed Italian talc. And is it your belief that that does not mean talc that has been through the beneficiation	3 4	BY MS. O'DELL: Q. So this is beneficiated or processed talc that has been processed by
3 4	was processed Italian talc. And is it your belief that that does not mean talc that has been through the beneficiation process?	3 4	BY MS. O'DELL: Q. So this is beneficiated or processed talc that has been processed by Johnson & Johnson that's being reported
2 3 4 5	was processed Italian talc. And is it your belief that that does not mean talc that has been through the beneficiation process? A. I'd want to look at those	2 3 4 5 6	BY MS. O'DELL: Q. So this is beneficiated or processed talc that has been processed by Johnson & Johnson that's being reported in Exhibit 9, true?
2 3 4 5	was processed Italian talc. And is it your belief that that does not mean talc that has been through the beneficiation process? A. I'd want to look at those Battelle reports and see exactly what	2 3 4 5 6 7	BY MS. O'DELL: Q. So this is beneficiated or processed talc that has been processed by Johnson & Johnson that's being reported in Exhibit 9, true? A. So this says EGT Extra
2 3 4 5 6 7	was processed Italian talc. And is it your belief that that does not mean talc that has been through the beneficiation process? A. I'd want to look at those Battelle reports and see exactly what they did.	2 3 4 5 6 7	BY MS. O'DELL: Q. So this is beneficiated or processed talc that has been processed by Johnson & Johnson that's being reported in Exhibit 9, true? A. So this says EGT Extra 00000, and the table says, "Processed
2 3 4 5 6 7 8	was processed Italian talc. And is it your belief that that does not mean talc that has been through the beneficiation process? A. I'd want to look at those Battelle reports and see exactly what they did. MR. CHACHKES: Leigh, how	2 3 4 5 6 7 8	BY MS. O'DELL: Q. So this is beneficiated or processed talc that has been processed by Johnson & Johnson that's being reported in Exhibit 9, true? A. So this says EGT Extra 00000, and the table says, "Processed talc Italian 1."
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2 3 4 5 6 7 8 9 10	was processed Italian talc. And is it your belief that that does not mean talc that has been through the beneficiation process? A. I'd want to look at those Battelle reports and see exactly what they did. MR. CHACHKES: Leigh, how much longer are you planning? MS. O'DELL: Give me just a few minutes. I was trying to	2 3 4 5 6 7 8 9 10 11	BY MS. O'DELL: Q. So this is beneficiated or processed talc that has been processed by Johnson & Johnson that's being reported in Exhibit 9, true? A. So this says EGT Extra 00000, and the table says, "Processed talc Italian 1." Are are those the same? Q. They are. I think you will find that Italian 1 is referred to on
2 3 4 5 6 7 8 9 10 11 12	was processed Italian talc. And is it your belief that that does not mean talc that has been through the beneficiation process? A. I'd want to look at those Battelle reports and see exactly what they did. MR. CHACHKES: Leigh, how much longer are you planning? MS. O'DELL: Give me just a few minutes. I was trying to finish this section.	2 3 4 5 6 7 8 9 10 11	BY MS. O'DELL: Q. So this is beneficiated or processed talc that has been processed by Johnson & Johnson that's being reported in Exhibit 9, true? A. So this says EGT Extra 00000, and the table says, "Processed talc Italian 1." Are are those the same? Q. They are. I think you will find that Italian 1 is referred to on Page 5 of this report, and it's the
2 3 4 4 5 6 6 7 8 8 9 10 11 12 13	was processed Italian talc. And is it your belief that that does not mean talc that has been through the beneficiation process? A. I'd want to look at those Battelle reports and see exactly what they did. MR. CHACHKES: Leigh, how much longer are you planning? MS. O'DELL: Give me just a few minutes. I was trying to finish this section. You know, I think this	2 3 4 5 6 7 8 9 10 11 12	BY MS. O'DELL: Q. So this is beneficiated or processed talc that has been processed by Johnson & Johnson that's being reported in Exhibit 9, true? A. So this says EGT Extra 00000, and the table says, "Processed talc Italian 1." Are are those the same? Q. They are. I think you will find that Italian 1 is referred to on Page 5 of this report, and it's the identification of the specific sample.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	was processed Italian talc. And is it your belief that that does not mean talc that has been through the beneficiation process? A. I'd want to look at those Battelle reports and see exactly what they did. MR. CHACHKES: Leigh, how much longer are you planning? MS. O'DELL: Give me just a few minutes. I was trying to finish this section. You know, I think this exhibit I think the fact that this is processed talc is pretty	2 3 4 5 6 7 8 9 10 11 12 13 14 15	BY MS. O'DELL: Q. So this is beneficiated or processed talc that has been processed by Johnson & Johnson that's being reported in Exhibit 9, true? A. So this says EGT Extra 00000, and the table says, "Processed talc Italian 1." Are are those the same? Q. They are. I think you will find that Italian 1 is referred to on Page 5 of this report, and it's the identification of the specific sample. A. I see. Q. Do you see that?
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2 3 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18	was processed Italian talc. And is it your belief that that does not mean talc that has been through the beneficiation process? A. I'd want to look at those Battelle reports and see exactly what they did. MR. CHACHKES: Leigh, how much longer are you planning? MS. O'DELL: Give me just a few minutes. I was trying to finish this section. You know, I think this exhibit I think the fact that this is processed talc is pretty clear. But if if Dr. Poulton doesn't remember then I'd like to show her.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MS. O'DELL: Q. So this is beneficiated or processed talc that has been processed by Johnson & Johnson that's being reported in Exhibit 9, true? A. So this says EGT Extra 00000, and the table says, "Processed talc Italian 1." Are are those the same? Q. They are. I think you will find that Italian 1 is referred to on Page 5 of this report, and it's the identification of the specific sample. A. I see. Q. Do you see that? A. I see. Q. So are we in agreement now that the samples reported as on May 9,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	was processed Italian talc. And is it your belief that that does not mean talc that has been through the beneficiation process? A. I'd want to look at those Battelle reports and see exactly what they did. MR. CHACHKES: Leigh, how much longer are you planning? MS. O'DELL: Give me just a few minutes. I was trying to finish this section. You know, I think this exhibit I think the fact that this is processed talc is pretty clear. But if if Dr. Poulton doesn't remember then I'd like to show her. BY MS. O'DELL:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MS. O'DELL: Q. So this is beneficiated or processed talc that has been processed by Johnson & Johnson that's being reported in Exhibit 9, true? A. So this says EGT Extra 00000, and the table says, "Processed talc Italian 1." Are are those the same? Q. They are. I think you will find that Italian 1 is referred to on Page 5 of this report, and it's the identification of the specific sample. A. I see. Q. Do you see that? A. I see. Q. So are we in agreement now that the samples reported as on May 9, 1958, and on May 23, 1958, are samples of
2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	was processed Italian talc. And is it your belief that that does not mean talc that has been through the beneficiation process? A. I'd want to look at those Battelle reports and see exactly what they did. MR. CHACHKES: Leigh, how much longer are you planning? MS. O'DELL: Give me just a few minutes. I was trying to finish this section. You know, I think this exhibit I think the fact that this is processed talc is pretty clear. But if if Dr. Poulton doesn't remember then I'd like to show her. BY MS. O'DELL: Q. Let me show you what I'm	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	BY MS. O'DELL: Q. So this is beneficiated or processed talc that has been processed by Johnson & Johnson that's being reported in Exhibit 9, true? A. So this says EGT Extra 00000, and the table says, "Processed talc Italian 1." Are are those the same? Q. They are. I think you will find that Italian 1 is referred to on Page 5 of this report, and it's the identification of the specific sample. A. I see. Q. Do you see that? A. I see. Q. So are we in agreement now that the samples reported as on May 9, 1958, and on May 23, 1958, are samples of processed Johnson & Johnson talc?
2 3 3 4 4 5 6 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21	was processed Italian talc. And is it your belief that that does not mean talc that has been through the beneficiation process? A. I'd want to look at those Battelle reports and see exactly what they did. MR. CHACHKES: Leigh, how much longer are you planning? MS. O'DELL: Give me just a few minutes. I was trying to finish this section. You know, I think this exhibit I think the fact that this is processed talc is pretty clear. But if if Dr. Poulton doesn't remember then I'd like to show her. BY MS. O'DELL: Q. Let me show you what I'm marking as Exhibit 9 to your deposition.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MS. O'DELL: Q. So this is beneficiated or processed talc that has been processed by Johnson & Johnson that's being reported in Exhibit 9, true? A. So this says EGT Extra 00000, and the table says, "Processed talc Italian 1." Are are those the same? Q. They are. I think you will find that Italian 1 is referred to on Page 5 of this report, and it's the identification of the specific sample. A. I see. Q. Do you see that? A. I see. Q. So are we in agreement now that the samples reported as on May 9, 1958, and on May 23, 1958, are samples of processed Johnson & Johnson talc? A. Could I read a little more
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	was processed Italian talc. And is it your belief that that does not mean talc that has been through the beneficiation process? A. I'd want to look at those Battelle reports and see exactly what they did. MR. CHACHKES: Leigh, how much longer are you planning? MS. O'DELL: Give me just a few minutes. I was trying to finish this section. You know, I think this exhibit I think the fact that this is processed talc is pretty clear. But if if Dr. Poulton doesn't remember then I'd like to show her. BY MS. O'DELL: Q. Let me show you what I'm marking as Exhibit 9 to your deposition. (Document marked for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	BY MS. O'DELL: Q. So this is beneficiated or processed talc that has been processed by Johnson & Johnson that's being reported in Exhibit 9, true? A. So this says EGT Extra 00000, and the table says, "Processed talc Italian 1." Are are those the same? Q. They are. I think you will find that Italian 1 is referred to on Page 5 of this report, and it's the identification of the specific sample. A. I see. Q. Do you see that? A. I see. Q. So are we in agreement now that the samples reported as on May 9, 1958, and on May 23, 1958, are samples of processed Johnson & Johnson tale? A. Could I read a little more of this report?

	MPage B. 196	<u> </u>	
	Page 146		Page 148
1	A. Well, I just, I just want to	1	
2	make sure. I have seen that paragraph on	2	EXAMINATION (Cont'd.)
3	Page 2. I want to read the lead-up to	3	
4	the table we just referred to on Page 5.	4	BY MS. O'DELL:
5	Q. Have you seen this report	5	Q. Dr. Poulton, before lunch,
6	before?	1	we were talking about testing that
7	A. I have, yeah. I have seen a	7	Battelle had done of certain Italian talc
8	lot of reports.	8	samples. And we were discussing whether
9	Q. Sure, I'm just asking.	1	they were processed Italian talc, in
10	A. Yeah, I have seen this.	1	other words, there the samples had
11	Q. I'm not suggesting anything		been processed was were whether
12	other than I'm just asking if you have	12	the samples were processed powder by J&J.
13	seen this.	13	And we looked at page, I
14	A. Yeah, I have seen this.	14	think it's 2 of the report ending Bates
15	Q. Okay. All right. Anything	15	911. It refers to the samples as being
16	are and writing year to remark the rest	16	EGT Extra 00000 talc from the mill at
17	that makes you doubt that this was	17	Cranford, New Jersey. And you wanted to
18	processed talc that was actually tested?	18	take a little closer look at that report.
19	A. Well, again I want to see	19	A. Yeah.
	what they were doing inhouse versus what	20	Q. Have you had an opportunity
21	they acquired, just, just to be sure in		to do that?
22	my mind.	22	A. I did look at it.
23	Q. Do you think that they were	23	Q. And are we in agreement that
24	adding tremolite inhouse?	24	the samples that were tested were
	Page 147		Page 149
1	A. I don't know. I I	1	processed Johnson & Johnson talcum
2	just I want to read the report.	2	powder?
3	Q. It could, could be. It	3	A. I could not confirm that
4	could, could be, okay.	4	from the Cranford, New Jersey, plant.
5	A. I just want to		And I and I couldn't accurately map
6	Q. Well, we'll take a break,	6	Talc 1 and Talc 2 to EGT Extra. So I
7	and if you you can read it over lunch,	7	I am still confused as to whether that is
8	and then we'll come back and I'll ask you	8	truly a Johnson & Johnson processed talc.
9	a few more questions about it.	9	Q. And in your mind, you don't
10	A. Okay.	10	know strike that.
11	THE VIDEOGRAPHER: Off the	11	You don't know whether EGT
12	record, right?	12	talc was actually the product name for
13	MS. O'DELL: Yeah.	13	Italian talc?
14	THE VIDEOGRAPHER: The	14	A. From from Cranford.
15	the time is 12:28 p.m. Off the	15	Q. You do not know that?
16	record.	16	A. I do not know that EGT Extra
1		17	00000 talc from Cranford is Johnson &
17		18	Johnson talc. I I don't have
17	(Lunch break.)	-	
	(Lunch break.)	19	confirmation of that.
18	(Lunch break.) THE VIDEOGRAPHER: Okay. We		confirmation of that. Q. Are are you have you
18 19		19	Q. Are are you have you seen that referred to in documents as
18 19 20	THE VIDEOGRAPHER: Okay. We	19 20	Q. Are are you have you seen that referred to in documents as Johnson & Johnson Italian talc?
18 19 20 21 22 23	THE VIDEOGRAPHER: Okay. We are back on the record. The time is 1:29 p.m.	19 20 21 22 23	Q. Are are you have you seen that referred to in documents as Johnson & Johnson Italian talc? A. EGT Extra?
18 19 20 21 22	THE VIDEOGRAPHER: Okay. We are back on the record. The time	19 20 21 22	Q. Are are you have you seen that referred to in documents as Johnson & Johnson Italian talc?

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	Page 150		Page 152
1	A. I'd have to go back and look	1	A. I do.
2	for for that reference.	2	Q. And if you'll look, the
3	Q. And you are aware that	3	samples measured in this or analyzed in
4	the Battelle did a series of tests on	4	this report at the bottom are also
5	Johnson & Johnson talcum powder from	5	referred to as EGT Extra 0000.
6	Italy. Are you not?	6	Do you see that?
7	MR. CHACHKES: Objection.	7	A. I see that.
8	THE WITNESS: I I know	8	Q. And they're taken weekly
9	that Battelle did a number of	9	at weekly intervals from the conveyor at
10	tests for Johnson & Johnson	10	the Cranford, New Jersey plant. Which is
11	involving samples from Italy.	11	a J&J processing plant, correct?
12	BY MS. O'DELL:	12	A. So I don't know that. I
13	Q. And, in fact, we looked at	13	would want to see some documentation that
14	not only the May the 9th sample results	14	
15	that we just have reviewed the actual	15	sourcing.
16	report which is Exhibit 9. But in the	16	Q. What do you know about the
	Hopkins Exhibit 28 chart, we also looked	17	beneficiation process of Italian talc
18	at the test results for a May 23, 1958,	18	that J&J employed?
19	sample.	19	A. So I believe that there was
20	Do you recall that?	20	
21	A. We have that in the table.	21	purest grades of talc. And it was
22	I don't think that we've looked at J&J-2,	22	shipped to the United States. At that
23	the Battelle report for that.		point I actually don't know where the
24	Q. Well fair fair enough.		Italian talc was processed.
	Page 151		Page 153
1	Page 151 But the Hopkins charts	1	Q. Okay. Let's assume for
	Page 151 But the Hopkins charts refers to it as processed talc as well,	1 2	Q. Okay. Let's assume for purposes of my question that the
	Page 151 But the Hopkins charts refers to it as processed talc as well, correct?	1 2 3	Q. Okay. Let's assume for purposes of my question that the Cranford, New Jersey facility is a
3 4	Page 151 But the Hopkins charts refers to it as processed talc as well, correct? A. It it does. I would have	1 2 3 4	Q. Okay. Let's assume for purposes of my question that the Cranford, New Jersey facility is a Johnson & Johnson facility, which I will
2 3 4 5	Page 151 But the Hopkins charts refers to it as processed talc as well, correct? A. It it does. I would have the same questions as to what the actual	1 2 3 4 5	Q. Okay. Let's assume for purposes of my question that the Cranford, New Jersey facility is a Johnson & Johnson facility, which I will represent to you it is, that based on
2 3 4 5	Page 151 But the Hopkins charts refers to it as processed talc as well, correct? A. It it does. I would have	1 2 3 4 5	Page 153 Q. Okay. Let's assume for purposes of my question that the Cranford, New Jersey facility is a Johnson & Johnson facility, which I will represent to you it is, that based on this document, taken in the context of
2 3 4 5	Page 151 But the Hopkins charts refers to it as processed talc as well, correct? A. It it does. I would have the same questions as to what the actual	1 2 3 4 5	Page 153 Q. Okay. Let's assume for purposes of my question that the Cranford, New Jersey facility is a Johnson & Johnson facility, which I will represent to you it is, that based on this document, taken in the context of not only Exhibit 10, but also Exhibit 9,
2 3 4 5 6	Page 151 But the Hopkins charts refers to it as processed talc as well, correct? A. It it does. I would have the same questions as to what the actual origination of the sample is.	1 2 3 4 5	Q. Okay. Let's assume for purposes of my question that the Cranford, New Jersey facility is a Johnson & Johnson facility, which I will represent to you it is, that based on this document, taken in the context of not only Exhibit 10, but also Exhibit 9,
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Maayeib. 196	52n, Ph.D. 720,24 rage 41 01 00
Page 154	Page 156
¹ you this question. You gave us earlier,	1 (there?)
² and I marked it as Exhibit 3, this table.	A. Hang on a minute.
³ A. Yes.	3 Exhibit 5.
Q. And this was the, what you	Q. Yes.
⁵ called the "back of the envelope many	Okay.
⁶ assumptions" analysis that you conducted	Q. And if you will turn to Page
⁷ over the last couple of weeks?	13 of Dr. Cook's report, the second full
8 A. Yes.	8 paragraph right before the table.
9 Q. And what was the purpose of	Do you see that?
¹⁰ you performing this analysis?	A. The paragraph that starts,
A. I just had questions in my	"The testing results
mind as to what the actual mining rates	Q. That's right?
¹³ might have been and I wanted to do some	A "appearing in Table 17"?
¹⁴ calculations to see what they looked like	Q. Yes. And in that sentence
and how that material flowed through the	it says, "The testing results appearing
¹⁶ mill, how long it might take. It was	in table" "in the table below are some
¹⁷ actually not something that I relied on.	of the reported instances within
18 It was just a question I had as I was	defendant's internal documents where
¹⁹ reviewing documents.	serpentine asbestos, chrysotile,
Q. Do this is not a calculation	amphibole asbestos or potentially
or analysis that you relied on in reaching your opinions?	asbestiform amphiboles have been found in samples of talc used to source I& I talcum
reaching your opinions? A. That's correct.	sumpres of the used to source sees thream
	(23) (powder products.")(24) Did I read that correctly?
Q. And what was what were	Did I lead that confectly?
Page 155	Page 157
¹ your conclusions or what were, you know,	1 A. That's what it says.
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	MPagerb.196	34 2	1, 111.0.
	Page 158		Page 160
1	essentially Hopkins' table?	1	A. So I looked at some of the
2	Q. It has similarities. But it	2	examples that they listed as being
3	is not the same.	3	asbestos-containing samples. I looked at
4	A. It is not the same. And the	4	the cited documents and concluded that
5	difference is?	5	they had not correctly identified samples
6	Q. My question to you is not a	6	as containing asbestiform when the
7	comparison of the table to the	7	reports said those were not ore samples
8	Hopkins-28. My question is in presenting	8	or they did not identify things as
9	this table of results, Dr. Cook	9	asbestos.
10	acknowledges that there are internal	10	Q. And your criticisms are
11	documents that state there's serpentine	11	outlined in your expert report, true?
12	asbestos or chrysotile, amphibole	12	A. Yes.
13	asbestos, or potentially asbestiform	13	Q. If you'll turn to Page 7 of
14	amphiboles. He is clearly not conflating	14	your report. And specifically you cite
15	the two, correctly correct?	15	J&J 000087868, which we just marked a few
16	MR. CHACHKES: Objection.	16	moments ago as Exhibit 10.
17	THE WITNESS: I disagree	17	And you criticize Dr. Cook
18	with that interpretation when I	18	by saying that, "When tremolite was
19	looked at these documents and how	19	identified, the tremolite was not
20	Drs. Cook and Krekeler were	20	identified as asbestiform."
21	associating test results with	21	Do you see that sentence in
22	their conclusion, that these were	22	your report?
23	asbestiform minerals in the ore	23	A. Yes, I do.
24	samples.	24	Q. And if you'll turn to Page
	•		
1	Page 159	,	Page 161
	BY MS. O'DELL:	1	21 of the report that we've marked as
2	Q. Did are there are your	1 2	E 1 11 1 10 1 1 1 1 10 010
1 2	· · · · · · · · · · · · · · · · · · ·	1	Exhibit 10 do you see that, Page 21?
3	criticisms of the table reporting the	3	A. Labeled "conclusions"?
4	criticisms of the table reporting the results of asbestos testing fully set out	3 4	A. Labeled "conclusions"?Q. Yes.
4 5	criticisms of the table reporting the results of asbestos testing fully set out in your report?	3 4 5	A. Labeled "conclusions"?Q. Yes.A. Okay.
4 5 6	criticisms of the table reporting the results of asbestos testing fully set out in your report? A. I identified a few examples.	3 4 5 6	A. Labeled "conclusions"?Q. Yes.A. Okay.Q. Under Number 2. Battelle et
4 5 6 7	criticisms of the table reporting the results of asbestos testing fully set out in your report? A. I identified a few examples. Q. Are they fully set out in	3 4 5 6 7	 A. Labeled "conclusions"? Q. Yes. A. Okay. Q. Under Number 2. Battelle et al. concludes that 10 percent of the
4 5 6 7 8	criticisms of the table reporting the results of asbestos testing fully set out in your report? A. I identified a few examples. Q. Are they fully set out in your report?	3 4 5 6 7 8	A. Labeled "conclusions"? Q. Yes. A. Okay. Q. Under Number 2. Battelle et al. concludes that 10 percent of the material that was examined was fibrous,
4 5 6 7 8 9	criticisms of the table reporting the results of asbestos testing fully set out in your report? A. I identified a few examples. Q. Are they fully set out in your report? A. When you say fully set out,	3 4 5 6 7 8	A. Labeled "conclusions"? Q. Yes. A. Okay. Q. Under Number 2. Battelle et al. concludes that 10 percent of the material that was examined was fibrous, correct?
4 5 6 7 8 9	criticisms of the table reporting the results of asbestos testing fully set out in your report? A. I identified a few examples. Q. Are they fully set out in your report? A. When you say fully set out, what do you mean?	3 4 5 6 7 8 9	A. Labeled "conclusions"? Q. Yes. A. Okay. Q. Under Number 2. Battelle et al. concludes that 10 percent of the material that was examined was fibrous, correct? A. That's what it says.
4 5 6 7 8 9 10	criticisms of the table reporting the results of asbestos testing fully set out in your report? A. I identified a few examples. Q. Are they fully set out in your report? A. When you say fully set out, what do you mean? Q. I'm saying if you have a	3 4 5 6 7 8 9 10	A. Labeled "conclusions"? Q. Yes. A. Okay. Q. Under Number 2. Battelle et al. concludes that 10 percent of the material that was examined was fibrous, correct? A. That's what it says. Fibrous is not the same as asbestos.
4 5 6 7 8 9 10 11	criticisms of the table reporting the results of asbestos testing fully set out in your report? A. I identified a few examples. Q. Are they fully set out in your report? A. When you say fully set out, what do you mean? Q. I'm saying if you have a criticism of the report of Dr. Cook's	3 4 5 6 7 8 9 10 11 12	A. Labeled "conclusions"? Q. Yes. A. Okay. Q. Under Number 2. Battelle et al. concludes that 10 percent of the material that was examined was fibrous, correct? A. That's what it says. Fibrous is not the same as asbestos. Q. Can be asbestiform, true?
4 5 6 7 8 9 10 11 12 13	criticisms of the table reporting the results of asbestos testing fully set out in your report? A. I identified a few examples. Q. Are they fully set out in your report? A. When you say fully set out, what do you mean? Q. I'm saying if you have a criticism of the report of Dr. Cook'sstrike that. Start again.	3 4 5 6 7 8 9 10 11 12 13	A. Labeled "conclusions"? Q. Yes. A. Okay. Q. Under Number 2. Battelle et al. concludes that 10 percent of the material that was examined was fibrous, correct? A. That's what it says. Fibrous is not the same as asbestos. Q. Can be asbestiform, true? A. Fibrous?
4 5 6 7 8 9 10 11 12 13 14	criticisms of the table reporting the results of asbestos testing fully set out in your report? A. I identified a few examples. Q. Are they fully set out in your report? A. When you say fully set out, what do you mean? Q. I'm saying if you have a criticism of the report of Dr. Cook'sstrike that. Start again. Are all your criticisms of	3 4 5 6 7 8 9 10 11 12 13 14	A. Labeled "conclusions"? Q. Yes. A. Okay. Q. Under Number 2. Battelle et al. concludes that 10 percent of the material that was examined was fibrous, correct? A. That's what it says. Fibrous is not the same as asbestos. Q. Can be asbestiform, true? A. Fibrous? Q. Yes.
4 5 6 7 8 9 10 11 12 13 14 15	criticisms of the table reporting the results of asbestos testing fully set out in your report? A. I identified a few examples. Q. Are they fully set out in your report? A. When you say fully set out, what do you mean? Q. I'm saying if you have a criticism of the report of Dr. Cook'sstrike that. Start again. Are all your criticisms of the table reporting the test results for	3 4 5 6 7 8 9 10 11 12 13 14	A. Labeled "conclusions"? Q. Yes. A. Okay. Q. Under Number 2. Battelle et al. concludes that 10 percent of the material that was examined was fibrous, correct? A. That's what it says. Fibrous is not the same as asbestos. Q. Can be asbestiform, true? A. Fibrous? Q. Yes. A. Is a broader term.
4 5 6 7 8 9 10 11 12 13 14 15	criticisms of the table reporting the results of asbestos testing fully set out in your report? A. I identified a few examples. Q. Are they fully set out in your report? A. When you say fully set out, what do you mean? Q. I'm saying if you have a criticism of the report of Dr. Cook'sstrike that. Start again. Are all your criticisms of the table reporting the test results for asbestos testing contained in your	3 4 5 6 7 8 9 10 11 12 13 14 15	A. Labeled "conclusions"? Q. Yes. A. Okay. Q. Under Number 2. Battelle et al. concludes that 10 percent of the material that was examined was fibrous, correct? A. That's what it says. Fibrous is not the same as asbestos. Q. Can be asbestiform, true? A. Fibrous? Q. Yes. A. Is a broader term. Asbestiform is quite specific.
4 5 6 7 8 9 10 11 12 13 14 15 16	criticisms of the table reporting the results of asbestos testing fully set out in your report? A. I identified a few examples. Q. Are they fully set out in your report? A. When you say fully set out, what do you mean? Q. I'm saying if you have a criticism of the report of Dr. Cook's strike that. Start again. Are all your criticisms of the table reporting the test results for asbestos testing contained in your report?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Labeled "conclusions"? Q. Yes. A. Okay. Q. Under Number 2. Battelle et al. concludes that 10 percent of the material that was examined was fibrous, correct? A. That's what it says. Fibrous is not the same as asbestos. Q. Can be asbestiform, true? A. Fibrous? Q. Yes. A. Is a broader term. Asbestiform is quite specific. Q. And asbestiform fibrous
4 5 6 7 8 9 10 11 12 13 14 15 16 17	criticisms of the table reporting the results of asbestos testing fully set out in your report? A. I identified a few examples. Q. Are they fully set out in your report? A. When you say fully set out, what do you mean? Q. I'm saying if you have a criticism of the report of Dr. Cook'sstrike that. Start again. Are all your criticisms of the table reporting the test results for asbestos testing contained in your report? A. I think I'm still	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Labeled "conclusions"? Q. Yes. A. Okay. Q. Under Number 2. Battelle et al. concludes that 10 percent of the material that was examined was fibrous, correct? A. That's what it says. Fibrous is not the same as asbestos. Q. Can be asbestiform, true? A. Fibrous? Q. Yes. A. Is a broader term. Asbestiform is quite specific. Q. And asbestiform — fibrous material includes asbestiform material,
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	criticisms of the table reporting the results of asbestos testing fully set out in your report? A. I identified a few examples. Q. Are they fully set out in your report? A. When you say fully set out, what do you mean? Q. I'm saying if you have a criticism of the report of Dr. Cook'sstrike that. Start again. Are all your criticisms of the table reporting the test results for asbestos testing contained in your report? A. I think I'm still unfortunately having trouble following	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Labeled "conclusions"? Q. Yes. A. Okay. Q. Under Number 2. Battelle et al. concludes that 10 percent of the material that was examined was fibrous, correct? A. That's what it says. Fibrous is not the same as asbestos. Q. Can be asbestiform, true? A. Fibrous? Q. Yes. A. Is a broader term. Asbestiform is quite specific. Q. And asbestiform — fibrous material includes asbestiform material, correct?
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	criticisms of the table reporting the results of asbestos testing fully set out in your report? A. I identified a few examples. Q. Are they fully set out in your report? A. When you say fully set out, what do you mean? Q. I'm saying if you have a criticism of the report of Dr. Cook'sstrike that. Start again. Are all your criticisms of the table reporting the test results for asbestos testing contained in your report? A. I think I'm still unfortunately having trouble following your question.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Labeled "conclusions"? Q. Yes. A. Okay. Q. Under Number 2. Battelle et al. concludes that 10 percent of the material that was examined was fibrous, correct? A. That's what it says. Fibrous is not the same as asbestos. Q. Can be asbestiform, true? A. Fibrous? Q. Yes. A. Is a broader term. Asbestiform is quite specific. Q. And asbestiform fibrous material includes asbestiform material, correct? A. I would not put the two in
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	criticisms of the table reporting the results of asbestos testing fully set out in your report? A. I identified a few examples. Q. Are they fully set out in your report? A. When you say fully set out, what do you mean? Q. I'm saying if you have a criticism of the report of Dr. Cook'sstrike that. Start again. Are all your criticisms of the table reporting the test results for asbestos testing contained in your report? A. I think I'm still unfortunately having trouble following your question. Q. Are all your criticisms of	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Labeled "conclusions"? Q. Yes. A. Okay. Q. Under Number 2. Battelle et al. concludes that 10 percent of the material that was examined was fibrous, correct? A. That's what it says. Fibrous is not the same as asbestos. Q. Can be asbestiform, true? A. Fibrous? Q. Yes. A. Is a broader term. Asbestiform is quite specific. Q. And asbestiform — fibrous material includes asbestiform material, correct? A. I would not put the two in the same category.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	criticisms of the table reporting the results of asbestos testing fully set out in your report? A. I identified a few examples. Q. Are they fully set out in your report? A. When you say fully set out, what do you mean? Q. I'm saying if you have a criticism of the report of Dr. Cook'sstrike that. Start again. Are all your criticisms of the table reporting the test results for asbestos testing contained in your report? A. I think I'm still unfortunately having trouble following your question. Q. Are all your criticisms of the table containing asbestos test	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Labeled "conclusions"? Q. Yes. A. Okay. Q. Under Number 2. Battelle et al. concludes that 10 percent of the material that was examined was fibrous, correct? A. That's what it says. Fibrous is not the same as asbestos. Q. Can be asbestiform, true? A. Fibrous? Q. Yes. A. Is a broader term. Asbestiform is quite specific. Q. And asbestiform fibrous material includes asbestiform material, correct? A. I would not put the two in the same category. Q. But if if your in your
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	criticisms of the table reporting the results of asbestos testing fully set out in your report? A. I identified a few examples. Q. Are they fully set out in your report? A. When you say fully set out, what do you mean? Q. I'm saying if you have a criticism of the report of Dr. Cook'sstrike that. Start again. Are all your criticisms of the table reporting the test results for asbestos testing contained in your report? A. I think I'm still unfortunately having trouble following your question. Q. Are all your criticisms of	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Labeled "conclusions"? Q. Yes. A. Okay. Q. Under Number 2. Battelle et al. concludes that 10 percent of the material that was examined was fibrous, correct? A. That's what it says. Fibrous is not the same as asbestos. Q. Can be asbestiform, true? A. Fibrous? Q. Yes. A. Is a broader term. Asbestiform is quite specific. Q. And asbestiform — fibrous material includes asbestiform material, correct? A. I would not put the two in the same category.

	MPagerb. 190	943	, , , , , , , , , , , , , , , , , , , ,
	Page 162		Page 164
1	would be encompassed by the term	1	document, it's a memo from Dr. Umberto
	"fibrous"?	2	Stefano. It's a 1973 memo. Do you
3	A. I wouldn't make that		recall that?
4	equation because I think it confuses the	4	A. Yes.
5	definition of asbestiform. I I would	5	Q. And you cite it for purposes
6	say that if it's truly asbestiform, it is	6	of of stating that there are no
7	asbestiform. And fibrous is distinct	7	asbestiform fibers in talc from the Val
	from that.	8	Chisone region, true?
9	Q. But asbestiform is fibrous	9	A. Can we look at his memo?
10	material. We can we can debate the	10	Q. I'm asking you a question
1	definition, we can debate some of the	11	about what you cite it for.
12	characteristics, but asbestiform asbestos	12	A. Well, I'm I'd like to see
13	is fibrous in nature, true?	13	what his memo says to refresh my memory.
14	MR. LOCKE: Objection.	14	Q. Who who is he?
15	THE WITNESS: Again, I I	15	A. I don't know if he was a
16	would stay with a very specific	16	
17	definition. I would not agree to	17	doctor in the region.
18	equate fibrous with asbestiform.	18	(Document marked for
19	BY MS. O'DELL:	19	identification as Exhibit
20	Q. I didn't I didn't say	20	Poulton-11.)
	equate. I said asbestiform is would		BY MS. O'DELL:
	be encompassed in the term "fibrous."	22	Q. Here is Exhibit 11, which
23	A. I would not put it in that		is is that the memo you're referring
	set.		to in your report?
	SCI.		to in your report:
			• 1
	Page 163		Page 165
1	Page 163 Q. Okay. So it's	1	Page 165 A. I believe so.
1 2	_	1 2	_
	Q. Okay. So it's	2	A. I believe so.
2	Q. Okay. So it'sA. I would keep asbestiform	2	A. I believe so.Q. And according to your
2	Q. Okay. So it's A. I would keep asbestiform separate.	3 4	A. I believe so. Q. And according to your report, Dr. Stefano references a study
2 3 4 5	Q. Okay. So it'sA. I would keep asbestiform separate.Q. It's not fibrous material?	2 3 4 5	A. I believe so. Q. And according to your report, Dr. Stefano references a study and of whether talc mining in the Val
2 3 4 5	 Q. Okay. So it's A. I would keep asbestiform separate. Q. It's not fibrous material? A. I would keep it as a 	2 3 4 5 6	A. I believe so. Q. And according to your report, Dr. Stefano references a study and of whether talc mining in the Val Chisone region caused lung lung
2 3 4 5 6	 Q. Okay. So it's A. I would keep asbestiform separate. Q. It's not fibrous material? A. I would keep it as a separate distinction from fibrous. 	2 3 4 5 6	A. I believe so. Q. And according to your report, Dr. Stefano references a study and of whether talc mining in the Val Chisone region caused lung lung diseases in mine and mill workers due to
2 3 4 5 6 7	 Q. Okay. So it's A. I would keep asbestiform separate. Q. It's not fibrous material? A. I would keep it as a separate distinction from fibrous. Q. My question is, is 	2 3 4 5 6 7	A. I believe so. Q. And according to your report, Dr. Stefano references a study and of whether talc mining in the Val Chisone region caused lung lung diseases in mine and mill workers due to the presence of asbestiform minerals and
2 3 4 5 6 7 8	 Q. Okay. So it's A. I would keep asbestiform separate. Q. It's not fibrous material? A. I would keep it as a separate distinction from fibrous. Q. My question is, is asbestiform asbestos fibrous in nature? 	2 3 4 5 6 7 8	A. I believe so. Q. And according to your report, Dr. Stefano references a study and of whether talc mining in the Val Chisone region caused lung lung diseases in mine and mill workers due to the presence of asbestiform minerals and silica. That's what you state in your
2 3 4 5 6 7 8	Q. Okay. So it's A. I would keep asbestiform separate. Q. It's not fibrous material? A. I would keep it as a separate distinction from fibrous. Q. My question is, is asbestiform asbestos fibrous in nature? A. Again, I would stay with the	2 3 4 5 6 7 8	A. I believe so. Q. And according to your report, Dr. Stefano references a study and of whether talc mining in the Val Chisone region caused lung lung diseases in mine and mill workers due to the presence of asbestiform minerals and silica. That's what you state in your report, correct?
2 3 4 5 6 7 8 9	Q. Okay. So it's A. I would keep asbestiform separate. Q. It's not fibrous material? A. I would keep it as a separate distinction from fibrous. Q. My question is, is asbestiform asbestos fibrous in nature? A. Again, I would stay with the definition of asbestiform having very	2 3 4 5 6 7 8 9	A. I believe so. Q. And according to your report, Dr. Stefano references a study and of whether talc mining in the Val Chisone region caused lung lung diseases in mine and mill workers due to the presence of asbestiform minerals and silica. That's what you state in your report, correct? A. Let me just read.
2 3 4 5 6 7 8 9 10	Q. Okay. So it's A. I would keep asbestiform separate. Q. It's not fibrous material? A. I would keep it as a separate distinction from fibrous. Q. My question is, is asbestiform asbestos fibrous in nature? A. Again, I would stay with the definition of asbestiform having very specific characteristics which may not be	2 3 4 5 6 7 8 9 10	A. I believe so. Q. And according to your report, Dr. Stefano references a study and of whether talc mining in the Val Chisone region caused lung lung diseases in mine and mill workers due to the presence of asbestiform minerals and silica. That's what you state in your report, correct? A. Let me just read. Q. Is that the document you
2 3 4 5 6 7 8 9 10 11	Q. Okay. So it's A. I would keep asbestiform separate. Q. It's not fibrous material? A. I would keep it as a separate distinction from fibrous. Q. My question is, is asbestiform asbestos fibrous in nature? A. Again, I would stay with the definition of asbestiform having very specific characteristics which may not be characteristic of something in a fibrous	2 3 4 5 6 7 8 9 10 11 12	A. I believe so. Q. And according to your report, Dr. Stefano references a study and of whether talc mining in the Val Chisone region caused lung lung diseases in mine and mill workers due to the presence of asbestiform minerals and silica. That's what you state in your report, correct? A. Let me just read. Q. Is that the document you cited, Dr. Poulton?
2 3 4 5 6 7 8 9 10 11 12 13	Q. Okay. So it's A. I would keep asbestiform separate. Q. It's not fibrous material? A. I would keep it as a separate distinction from fibrous. Q. My question is, is asbestiform asbestos fibrous in nature? A. Again, I would stay with the definition of asbestiform having very specific characteristics which may not be characteristic of something in a fibrous set. So I would keep them separate.	2 3 4 5 6 7 8 9 10 11 12 13	A. I believe so. Q. And according to your report, Dr. Stefano references a study and of whether talc mining in the Val Chisone region caused lung lung diseases in mine and mill workers due to the presence of asbestiform minerals and silica. That's what you state in your report, correct? A. Let me just read. Q. Is that the document you cited, Dr. Poulton? A. It is.
2 3 4 5 6 7 8 9 10 11 12 13 14	Q. Okay. So it's A. I would keep asbestiform separate. Q. It's not fibrous material? A. I would keep it as a separate distinction from fibrous. Q. My question is, is asbestiform asbestos fibrous in nature? A. Again, I would stay with the definition of asbestiform having very specific characteristics which may not be characteristic of something in a fibrous set. So I would keep them separate. Q. I get I understand what	2 3 4 5 6 7 8 9 10 11 12 13	A. I believe so. Q. And according to your report, Dr. Stefano references a study and of whether talc mining in the Val Chisone region caused lung lung diseases in mine and mill workers due to the presence of asbestiform minerals and silica. That's what you state in your report, correct? A. Let me just read. Q. Is that the document you cited, Dr. Poulton? A. It is. Q. And Dr. Stefano reports
2 3 4 5 6 7 8 9 10 11 12 13 14	Q. Okay. So it's A. I would keep asbestiform separate. Q. It's not fibrous material? A. I would keep it as a separate distinction from fibrous. Q. My question is, is asbestiform asbestos fibrous in nature? A. Again, I would stay with the definition of asbestiform having very specific characteristics which may not be characteristic of something in a fibrous set. So I would keep them separate. Q. I get I understand what you're saying, but the truth is that in	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. I believe so. Q. And according to your report, Dr. Stefano references a study and of whether talc mining in the Val Chisone region caused lung lung diseases in mine and mill workers due to the presence of asbestiform minerals and silica. That's what you state in your report, correct? A. Let me just read. Q. Is that the document you cited, Dr. Poulton? A. It is. Q. And Dr. Stefano reports information from conversations that he's
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. Okay. So it's A. I would keep asbestiform separate. Q. It's not fibrous material? A. I would keep it as a separate distinction from fibrous. Q. My question is, is asbestiform asbestos fibrous in nature? A. Again, I would stay with the definition of asbestiform having very specific characteristics which may not be characteristic of something in a fibrous set. So I would keep them separate. Q. I get I understand what you're saying, but the truth is that in the context of a 1958 or '7 report,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. I believe so. Q. And according to your report, Dr. Stefano references a study and of whether talc mining in the Val Chisone region caused lung lung diseases in mine and mill workers due to the presence of asbestiform minerals and silica. That's what you state in your report, correct? A. Let me just read. Q. Is that the document you cited, Dr. Poulton? A. It is. Q. And Dr. Stefano reports information from conversations that he's had with physicians in the Val Chisone
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Page 168 Page 166 ¹ I just have this memo. ¹ BY MS. O'DELL: Q. And this, this memo was not Q. Let me show you what I've ³ published in a peer-reviewed literature, ³ marked as Exhibit 12. Is that the 4 true? ⁴ article that you're referencing? A. I believe so. Α. This exact memo, I don't Q. And this is a -- a study know. ⁷ of -- of talc miners and millers in Italy O. What you're holding in your 8 hand is not a peer-reviewed publication, ⁸ to determine if they have significant excess mortality from exposure to true? 10 asbestiform fibers, fair? Α. That's correct. 11 11 Q. And there's no protocol A. In Val Chisone, yes. 12 outlined in this memo, true? Q. And -- and it -- it states 13 A. True. in the background that, top of the page, 14 There's no identification of talc found here is free from asbestiform O. patients that were followed as a part of fibers. this examination, true? 16 Do you see that? 17 17 A. True. A. Yes. That -- you know, Q. Is there any citation to 19 interviewing medical doctors is not an support that statement? ²⁰ appropriate study method for determining 20 A. I would need to read through ²¹ if individuals have developed lung -the paper to see. ²² lung disease or silicosis as opposed to Q. Is there any citation at that location to support the statement ²³ exposure to an environmental material, ²⁴ true? ²⁴ that talc from Italy is free from Page 167 Page 169 MR. CHACHKES: Objection. ¹ asbestiform fibers? 1 2 THE WITNESS: So I am not A. I'd -- I'd want to go 3 commenting on whether this is a ³ through the paper and -- and look for his scientific study. I'm simply ⁴ references. 4 5 citing that this memo exists and Q. Okay. MS. O'DELL: Let's go off 6 what his conclusions were. 6 BY MS. O'DELL: the record. 8 Q. And this memo states that THE VIDEOGRAPHER: Okay. ⁹ tremolite is the only asbestos mineral 9 The time is 1:56 p.m. Off the 10 found in a very small amount in this 10 record. 11 talc? 11 (Short break.) 12 THE VIDEOGRAPHER: We are That's his sentence. A. 13 13 Q. You go on to talk about back on the record. The time is ¹⁴ Coggiola. Coggiola. I'm not sure how 1:59 p.m. ¹⁵ you say that. And you cite Coggiola for 15 BY MS. O'DELL: 16 the purpose of stating that there are no 16 Q. So, Doctor, before we went ¹⁷ asbestiform fibers in the -- in the Val off the record, I pointed you to the ¹⁸ Chisone reason -- region. statement in Coggiola that states, "Talc 19 Do you see that in your 19 found here is free from asbestiform ²⁰ fibers." And I asked you the question, 20 report? 21 21 is there a reference to support that A. I see that statement. 22 ²² statement. There's certainly no footnote (Document marked for 23 there. 23 identification as Exhibit 24 24 Poulton-12.) So the references are on

Page 172 Page 170 ¹ Page 64. ¹ as ore and waste them so you don't ² produce them. And you may call it part Q. Okay. ³ of the ore body, but it's not the ore A. Left-hand column, first full ⁴ paragraph that starts, "To provide ⁴ that you're mining. You're wasting it. ⁵ further evaluation on the issue, we Q. And what's your methodology ⁶ updated the analysis of the Italian for concluding that the reference to talc ⁷ cohort of talc miners and millers in Val ore in the Pooley report is -- is incorrect? 8 Chisone/Turin, reference Rubino et al. ⁹ 1976, 1979, in which the talc was free MR. CHACHKES: Objection. 10 ¹⁰ from asbestiform fibers, reference Verdel THE WITNESS: I believe he 11 ¹¹ et al. 1983; Parks 1994. had a statement in his report that 12 Q. And that's what you're I referenced. 13 relying on to say that talc from Italy 13 He mentions that, "Materials has no asbestiform fibers? 14 being tested do not represent an 15 15 average collection of specimens of MR. CHACHKES: Objection. 16 THE WITNESS: That's what 16 material being produced at the 17 17 I'm relying on in this paper that mine. The specimens were 18 the miners and millers in their 18 collected with the intention of 19 19 study from the Val Chisone region sampling those areas with obvious 20 20 were not exposed to talc that had non-talc mineral inclusions. 21 asbestiform. BY MS. O'DELL: 22 ²² BY MS. O'DELL: Q. And that's your -- that's Q. Okay. And you've seen tests your methodology? ²⁴ from the Val Chisone reason -- region That's his quote from his Page 171 Page 173 ¹ that has -- of talc with asbestiform ¹ report stating what he was sampling and ² why. ² fibers, true? A. I don't recall seeing Q. And yet, he goes on to ⁴ say -- and we went through this ⁴ asbestos in the talc ore that was being ⁵ milled. ⁵ earlier -- that he also sampled talc ore Q. Okay. And so it's your view ⁶ and we went through those results, I think the record will reflect that? ⁷ that Battelle and -- and Pooley's analysis that show asbestiform fibers A. And I outline in my are -- are not applicable to Johnson & paragraph which samples were from pure Johnson commercial talc? ¹⁰ talc faces, a sample I.39 was from the 11 MR. CHACHKES: Objection. ¹¹ crusher, had no asbestiform minerals. 12 THE WITNESS: I did not see The sample I.41 that we talked about 13 reference to asbestos minerals. 13 labeled "good specimen from face 2" had asbestiform minerals in the 14 tremolite only as an inclusion in a 15 15 samples that were marked as ore garnet grain. 16 16 for Johnson & Johnson. Q. Let me just stop you there. BY MS. O'DELL: 17 It had tremolite in this one. 18 Q. We went through a sample, if 18 MR. CHACHKES: We should let you'll recall, in Dr. Pooley's report, of 19 the witness finish. Please don't talc ore that contained tremolite? 20 interrupt her. 21 21 A. And I think that, again, MS. O'DELL: Excuse me. 22 ²² just because it says it's ore doesn't MR. CHACHKES: Move to ²³ mean that it's coming from an area that's 23 strike the question. 24 ²⁴ actually mined. So you can mark things MS. O'DELL: So be it.

Page 176 Page 174 1 That's fine. ¹ in terms -- zoning, Z-O-N-I-N-G -- is --BY MS. O'DELL: ² let me just ask you before I ask and see Q. So let me ask you this. ³ if you agree with this statement. ⁴ Rubino is -- was the initial mortality Do you -- do you understand ⁵ the term "zoning" in the context of study of talc miners and millers in 6 Italy, true? geologic exploration? A. I do not look up that A. I understand zoning in the context of alteration zones. reference. Q. I'll represent to you that Q. Do you agree that when you ¹⁰ that's the case. And Coggiola is a conduct zoning in ore deposits, what follow-up study to that particular study. you're really doing is identifying a That is -- neither Rubino or regular pattern or distribution of ¹³ minerals or elements over a particular ¹³ Coggiola involved the testing of talc samples, true? geographic area? Do you agree with that? 15 A. I don't think that's MR. CHACHKES: Objection. phrasing I understand for zoning. 16 THE WITNESS: I don't know. 17 Q. Have you heard the term 17 BY MS. O'DELL: Q. Coggiola does not involve "regional zoning"? A. Regional zoning? In the the testing of talc samples, true, for 19 the presence of asbestos? context of what exactly? 21 A. I believe he is relying on 21 Q. Of geologic exploration or others for that information. evaluation. 23 Q. Does not involve the testing A. Can you give me an example? ²⁴ of talc samples for asbestos, true? Well, for example, the --Q. Page 175 Page 177 ¹ when you look at the Southern Piedmont 1 MR. CHACHKES: Objection. 2 THE WITNESS: I believe he ² marked region, for example, there are 3 is not testing --³ areas of sedimentary deposits that ⁴ encompass a large part of that region. BY MS. O'DELL: ⁵ Are you familiar with that? Q. So the answer to my question is, that is correct? A. So you're talking about east 7 MR. CHACHKES: Objection. ⁷ coast geology, and that regional scale Asked and answered. geology is really not the core focus of BY MS. O'DELL: my report. 10 Q. You may answer. Q. So that -- you wouldn't be qualified to comment on the geology of A. I may answer that, okay? basically the eastern seaboard, fair? Can you just rephrase your question one ¹³ more time for me. A. I would not be able to comment on the genesis of rocks on the Q. What I'm asking you, a simple question, yes or no, is, Coggiola eastern seaboard. does not involve the testing of talc Q. Are you familiar with the term metallogeny? samples for the presence of asbestos, 18 true? 18 A. Metallogeny. 19 19 Q. Thank you. Metallogeny. A. That's my understanding. 20 A. Yes, I've heard it. Q. And do you have a copy of Verdel with you? 21 How would you define it? 21 22 22 A. I do not. A. I would define it as distribution of formation of metals. Q. Let me ask you if you agree 24 ²⁴ with this statement. The term "zoning" Q. And regional -- metallogeny,

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	Page 178		Page 180
1	say it again one more time for me, if you	1	Q. In terms of zoning however,
2	don't mind?	2	that's an important first step to
3	A. Metallogeny.	3	understand the details of a specific
4	Q. Metallogeny. I'm going to	4	deposit, true?
5	get it. Metallogeny is a form of	5	A. I think we're using zoning
6	regional zoning, true?	6	differently from my body of knowledge of
7	A. I don't know that I would	7	how the word "zoning" would be used. So
8	necessarily say that. But again, you're	8	I think I'm not on the same page where
	straying outside my zone of expertise	9	you are with this question.
- 1	here, so I couldn't comment.	10	Q. Okay. Let me ask you to
11	Q. Would you agree that there	11	
12	can be broad consistency in ore deposits	12	(Document marked for
	over a geographic region?	13	identification as Exhibit
14	A. No. And I think we would	14	Poulton-13.)
15	again have to take this on a case-by-case	15	BY MS. O'DELL:
	basis, not a general hypothetical.	16	Q. It's an expert from Guilbert
17	Q. I'm entitled to ask you	17	and Park which you cite. I don't have
18	hypotheticals. And so my question is,	18	another copy. I'm sorry. You are
		19	
	particular types of ore deposits can	20	A. I am.
	occur over regions?	21	Q. You cite that in your
22	A. So we would want to be	22	
		23	report? A. I do.
- 1	careful with the word "similarity" to	24	
24	answer that question honestly.	24	Q. It's authoritative?
	Page 179		Page 181
1	Q. How about consistency?	1	A. Yes.
2	A. Even consistency we would	1	11, 140,
3		2	
-	want to define.	3	Q. And Guilbert and Park have a
4	want to define.		Q. And Guilbert and Park have a section on regional zoning.
4	want to define. Q. Okay. Would you agree with	3	Q. And Guilbert and Park have a
4 5	want to define. Q. Okay. Would you agree with me that economic geologists often look to	3	Q. And Guilbert and Park have a section on regional zoning. Do you see this? A. Yes.
4 5 6	want to define. Q. Okay. Would you agree with me that economic geologists often look to a particular region and the consistencies	3 4 5	 Q. And Guilbert and Park have a section on regional zoning. Do you see this? A. Yes. Q. And they write, "Economic
4 5 6 7	want to define. Q. Okay. Would you agree with me that economic geologists often look to a particular region and the consistencies in the deposits of certain types of	3 4 5 6	 Q. And Guilbert and Park have a section on regional zoning. Do you see this? A. Yes. Q. And they write, "Economic geologists have been aware that many
4 5 6 7 8	want to define. Q. Okay. Would you agree with me that economic geologists often look to a particular region and the consistencies in the deposits of certain types of minerals in order to evaluate that area	3 4 5 6 7	Q. And Guilbert and Park have a section on regional zoning. Do you see this? A. Yes. Q. And they write, "Economic geologists have been aware that many types of ore deposits seem to have broad
4 5 6 7 8	want to define. Q. Okay. Would you agree with me that economic geologists often look to a particular region and the consistencies in the deposits of certain types of minerals in order to evaluate that area for, you know, economic exploitation?	3 4 5 6 7 8	Q. And Guilbert and Park have a section on regional zoning. Do you see this? A. Yes. Q. And they write, "Economic geologists have been aware that many types of ore deposits seem to have broad scale pattern consistencies," and they
4 5 6 7 8 9	want to define. Q. Okay. Would you agree with me that economic geologists often look to a particular region and the consistencies in the deposits of certain types of minerals in order to evaluate that area for, you know, economic exploitation? A. So we have models of mineral	3 4 5 6 7 8 9	Q. And Guilbert and Park have a section on regional zoning. Do you see this? A. Yes. Q. And they write, "Economic geologists have been aware that many types of ore deposits seem to have broad scale pattern consistencies," and they talked about the defied explanation until
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Page 182 Page 184 1 A. I wouldn't be an ¹ "Cook states chrysotile is also reported"? ² authoritative expert on Eastern Seaboard ³ ultramafic rocks. Q. Correct. Q. Would you agree with me that A. Correct. Yes. ⁵ regional zoning, such as described in Q. And what he says is, in this ⁶ report is, "Chrysotile is also reported ⁶ Guilbert and Park is a generally accepted principle in geologic exploration? in the Val Chisone mineral suite in 1971 A. So I think that as Guilbert 8 by Ashton." That's the quote you ⁹ and Park are using zoning, and -- and ¹⁰ you're referring to them, it's very criticize, correct? similar to what I said where you look at 11 A. That's the quote I criticize. ¹² tectonic locations, history. That puts 13 you in the ballpark. 13 Q. Let me ask you to look at what I'm marking as Exhibit 14. 14 So to the extent that that's 15 (Document marked for ¹⁵ a zone, that it puts you in the ballpark, 16 ¹⁶ then yes, it helps you narrow into an identification as Exhibit 17 ¹⁷ area. But as you get closer and closer, Poulton-14.) 18 BY MS. O'DELL: ¹⁸ smaller scales, then those differences Q. Exhibit 14 is a letter from ¹⁹ become very important. Bill Ashton, an employee of Johnson & 20 So zoning gets you in the Johnson, to a Mr. Caneer at the Colorado ²¹ ballpark. Then it's important to figure School of Mines. ²² out which seat you are in if we use a 23 ²³ ballpark analogy. It's dated 1971, correct? 24 Q. And you've not done that A. Correct. Page 183 Page 185 examination for the eastern part of the Q. And do you know who Bill ² United States that contains ultramafic 2 Ashton is? ³ derived talc deposits, true? A. I do not. A. I'm not the geologic expert Q. Do you know what his role ⁵ was at Johnson & Johnson? ⁵ for Eastern Seaboard ultramafic rocks. Q. Including the talc deposits A. I do not. ⁷ in -- in Vermont, true? Q. In the third paragraph from A. The region of the talc 8 the bottom, and -- well, maybe I should ⁹ deposits in Vermont. 9 start at the top. He says, "Dear Mr. Caneer," he said, "I've shipped to Q. You cite Guilbert and Park as an authoritative source. But Guilbert Bob Beers' attention one drum of Italian and Park does not describe ultramafic 12 rock from the Crosetto mine in the ¹³ Chisone valley of the Italian Alps." talc occurrences, true? 14 14 A. I was not citing them in the Do you see that? 15 context of ultramafic talc. A. Yes. 16 Q. And Guilbert and Park does Q. He says this is -- "That is not address tale occurrences specifically the" -- "the working from which the high" in Vermont, true? grade Italian talc originates," referring to talc for Baby Powder. 19 A. I believe that's correct. 20 20 Q. On Page 8 of your report you Do you see that? criticize Dr. Cook in relation to a 21 A. I don't know that it says letter that he relied on. Do you see Baby Powder. It just says high grade that, on the top of Page 8? 23 Italian talc. 24 24 A. The paragraph that starts, Q. And he calls it the high

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	Page 186	Page 188
¹ grade Italian ta	lc originates, that's	valley."
what he says, r		And he's referring to the
		Val Chisone valley in this letter,
4 Italian talc original		correct?
		A. I don't know that. He's
6 "I have also ch		referring to Val Chisone in the first
		paragraph where the talc samples that
		he he has shipped have come from.
		This is too nonspecific for
	ite, clinochlore,	•
	-	territory and valley as specifically Val
		Chisone.
	fact, Dr. Cook's	
	letter is accurate.	Q. This it's your you're
	t read that the same	
Ti. Tuon		Valley?
	inicianzation of that part	A. I can't say that it does.
•	in the valley and it	its its too general in that
	esti i iciate tilat saite	paragraph.
	contently back to the	2. This in certainly the whole
	oly talking about some	context of the letter is the var emission
unknown size		· direy, cerreer
	and that's your	11. The first paragraph that the
criticism of o	of Dr. Cook's, that	sourcing of the material has come from
	Page 187	Page 189
¹ citation in Dr.	Cook's report?	the Chisone Valley. Again, I can't say
	It does not state	in a broad paragraph that says territory
3 that that chry	ysotile is in the	and valley, what he is specifically
4 Crosetto mine.		referring to.
O. What		Q. And you're you're opining
		that valley in the latter paragraph is
		not the Chisone Valley, correct?
		A. I cannot conclusively say
⁹ valley, correct		it's Val Chisone Valley.
	HACHKES: Objection.	
	VITNESS: Dr. Cook is	
	to Val Chisone.	
1	aragraph says	
	n the valley." And it	
territory i	I can't infer from	1
doesii t	alley and territory are	
titut titut v	as Val Chisone.	•
18 BY MS. O'DE		And you state in your
	tys the valley in the	
Q. 110 Bu		
paragraph that	DI. COOK ICICICES. TIC	tale in Italy. This you elle that
200 / 2 , 2 , 2 , 2 , 2 , 2	checked in the	document.
	of that part of the	Do you see mat:
	doesn't stop there. Thid	11. 103.
ne says, "The r	ninerals which show in the	Q. Let me ask you to look at

Mage ID: 196	550, Ph.D.
Page 190	Page 192
¹ Exhibit 15.	1 081025. And that's Exhibit 15. You have
² (Document marked for	that in front of you?
³ identification as Exhibit	3 A. I do.
4 Poulton-15.)	Q. That's what you cite?
⁵ BY MS. O'DELL:	5 A. That's what I cite.
⁶ Q. And it's Bates Number	Q. There's no reference in
⁷ 081025. That's the document you referred	⁷ excuse me.
8 to, correct?	There's no reference in that
9 A. Yes.	⁹ document to Italy, correct?
Q. And your criticism of	A. In this document?
¹¹ Dr. Cook is that he misrepresents general	Q. Correct. Exhibit 15.
12 information regarding Italy in citation	A. I stand corrected. There is
13 of this document?	not Italy in this particular document.
¹⁴ A. That is my criticism.	So I've either mis-cited the document or
Q. Isn't it true that you're in	15 I've put it in the wrong place.
¹⁶ error, Dr. Poulton, by referring to this	Q. Or you were incorrect in
document in relation to Italy?	¹⁷ making the statement?
A. Could you explain me what	MR. LOCKE: Objection.
¹⁹ you think my error is?	THE WITNESS: I may be
Q. First, Dr. Cook does not	incorrect in referencing this
cite this document in his description of	document.
22 Italian talc mines.	²² BY MS. O'DELL:
A. Oh, he does not?	Q. So as stated in your report
Q. He does not. In fact, I'll	on Page 8, the second paragraph from the
Page 191	Page 193
direct your attention to Page 10 of	¹ top of the page is incorrect?
2 Dr. Cook's report where he describes the	2 A. This document does not cite
³ geology of Italian talc mines. And this	³ Italy, so I am incorrect in that citation
document is not included, correct?	of the document.
A. We would want to check that	⁵ Q. Earlier today you said that
6 there isn't another number for my	6 asbestos could be removed from talc in
7 citation.	⁷ the beneficiation process.
Q. I mean you're the you	8 Do you recall that?
9 you're the one who included that number.	⁹ A. I would have to see exactly
A. I did include that number.	what I said, but there is the ability to
And it's quite possible that if I opened	¹¹ separate asbestos. I would have to see
one of his documents that was the same	¹² exactly what I said this morning.
file, I numbered it as Imerys in my	Q. That's all you said.
document, so I would want to actually	14 A. Okay.
confirm that there isn't some other	Q. I'm just asking you the
¹⁶ number for the Imerys document that I	16 question, is what is what are you
have cited here. I don't believe I	¹⁷ relying on to make the statement that as
pulled it out of thin air.	¹⁸ asbestos can be fully removed from talc?
Q. I'll represent to you that	A. I don't think I said the
Imerys documents typically don't have	²⁰ word "fully," did I?
more than one number. So unlike J&J	Q. If you what process
documents which have been involved in	²² let me just back up.
23 litigation for quite a period of time.	Can asbestos in the
So I put before you Imerys	²⁴ present in talcum powder be completely

Page 194 Page 196 ¹ removed in the beneficiation process? ¹ impact on asbestos. A. So when you say talcum But I'm largely looking at powder, do you mean talc ore? ³ when we have asbestos mixed in with other Q. You can assume it means talc ⁴ kinds of minerals. ⁵ ore that's being processed for purposes Q. Can you remove or separate ⁶ of bottling. asbestos from talc based on the specific A. Okay. Okay. So as long as physical properties of asbestos? 8 there are physical properties differences A. There are differences in the ⁹ between minerals, you have the ability to physical properties with talc. So based 10 separate them based on particle size in on the separation and the beneficiation ¹¹ an air classification separator. processes that you're using, I would say You have the possibility of it is possible. ¹³ different surface chemistry processes or 13 Q. Possible, but you've not ¹⁴ surface chemistry properties that would ever studied that process or been ¹⁵ allow separation and flotation with the involved in that process, fair? ¹⁶ correct reagents. A. I have not had personal 17 17 You may have the experience. 18 possibility, even in the crushing and Q. You've not written on that, ¹⁹ grinding, because amphiboles are harder separation of asbestos from talc or other ²⁰ than talc ore is. And the grinding mills minerals, true? ²¹ are set up for particular hardness of A. I have not published on ²² minerals. 22 that. 23 23 So there are several stages Q. Let me ask you in Exhibit 15 24 to turn to -- first let me, before you ²⁴ that you can separate minerals based on Page 195 Page 197 ¹ turn to the page, this PowerPoint is ¹ their physical properties. And ² asbestiform minerals would have different ² entitled "Talc Geology Mining and ³ physical properties than talc. ³ Processing For Cosmetic, Pharma, and Food Q. Okay. Have you ever ⁴ Applications" by E.F. McCarthy dated ⁵ designed a process for purposes of ⁵ February 2010. removing asbestiform minerals from tale? You've seen this document ⁷ before? A. No. Have you ever supervised a A. I have. process that the purpose of which was to Q. And you're aware that remove asbestos from talc? ¹⁰ Mr. McCarthy was a toxicologist and 11 ¹¹ safety director that worked for Imerys A. No. ¹² Talc America? Q. What reported process are 13 you -- let me strike that and start 13 A. I knew he was an Imerys ¹⁴ again. ¹⁴ employee. I didn't know what his actual 15 15 role was. What peer-reviewed ¹⁶ publication are you relying on to 16 Q. If you'll turn to page Bates ¹⁷ conclude that asbestos in talcum powder number ending in 043. Mr. McCarthy has can be removed during the beneficiation created a slide called "Talc Beneficiation," correct? 19 process? 20 20 A. So I'm relying on background A. Yes. ²¹ knowledge of separating asbestos from 21 O. And he's -- in the second

²⁴ at changes of flotation reagents and its

²² other minerals. And I have looked at

²³ West Windsor document where they looked

²² bullet, he's talking about rejection of

Do you see that?

²³ fibrous minerals.

24

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Page 198	Page 200
¹ A. Yes.	1 Johnson mine was owned by Johnson &
² Q. And he says, and he's	² Johnson a Johnson & Johnson
³ referring to fibrous minerals, "Can be	³ subsidiaries, are you not?
⁴ selectively rejected and levels reduced	MR. CHACHKES: Objection.
⁵ by flotation and manual sorting, but they	THE WITNESS: I would have
6 cannot be eliminated to meet cosmetic	to look back at the documents of
7 standards."	who owned what and when.
8 Did I read that correctly?	BY MS. O'DELL:
9 A. That's what his bullet says.	9 Q. Do you know that as you're
Q. If you'll look at Dr. Cook's	sitting here?
report, Page 11. He's talking about	A. I don't know that off the
12 I'll give you a moment to get there, Page	(Document marked for
11 of D1. Cook's report. In the second	(Bodument marked for
paragraph, he does a literature review for Vermont tale occurrences	identification as Exhibit
for vermont tale occurrences.	Poulton-16.) BY MS. O'DELL:
Do you see that? A. Yes.	Q. Let me show you what I'm
Q. And he is describing the	going to mark as Exhibit 16. Have you
¹⁹ geology of the counties that surround the	19 seen this document before?
²⁰ mines that were used to source Johnson &	A. This does not look familiar.
Johnson's Baby Powder, true?	21 I would have to check my list to see if
A. I don't actually know where	it's one that I had.
23 these mines are located geographically	Q. If you'll turn to the second
²⁴ relative to the Johnson & Johnson mines.	page of the document. I think you're
	1 0
Page 199	Page 201
Q. Okay. And you don't know	a lace dy the one
	already there.
2 the counties where the Johnson & Johnson	Do you see at the top, this
the counties where the Johnson & Johnson source mines were located, true?	Do you see at the top, this is Eastern Magnesia Talc Inc., a Johnson
the counties where the Johnson & Johnson source mines were located, true? A. That's correct.	Do you see at the top, this is Eastern Magnesia Talc Inc., a Johnson 4 & Johnson company?
 the counties where the Johnson & Johnson source mines were located, true? A. That's correct. Q. And you state in your report 	Do you see at the top, this is Eastern Magnesia Talc Inc., a Johnson Johnson company? Do you see that?
 the counties where the Johnson & Johnson source mines were located, true? A. That's correct. Q. And you state in your report that the Johnson mine was never used to 	Do you see at the top, this is Eastern Magnesia Talc Inc., a Johnson Johnson company? Do you see that? A. I see that.
 the counties where the Johnson & Johnson source mines were located, true? A. That's correct. Q. And you state in your report that the Johnson mine was never used to source Baby Powder in your report? 	Do you see at the top, this is Eastern Magnesia Talc Inc., a Johnson 4 & Johnson company? Do you see that? A. I see that. Q. And it's a memo entitled
 2 the counties where the Johnson & Johnson 3 source mines were located, true? 4 A. That's correct. 5 Q. And you state in your report 6 that the Johnson mine was never used to 7 source Baby Powder in your report? 8 A. That's my understanding. 	Do you see at the top, this is Eastern Magnesia Talc Inc., a Johnson 4 & Johnson company? Do you see that? A. I see that. Q. And it's a memo entitled "The Cosmetics Industry."
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 2 the counties where the Johnson & Johnson 3 source mines were located, true? 4 A. That's correct. 5 Q. And you state in your report 6 that the Johnson mine was never used to 7 source Baby Powder in your report? 8 A. That's my understanding. 9 Q. How did you get that 10 understanding? 11 A. I believe I looked at the 12 reports where the mines were cited that 13 were producing Johnson & Johnson Baby 14 Powder. I don't recall seeing Johnson 15 mine on that list. 16 Q. What reports were you 17 referring to? 18 A. Many reports. 19 Q. Are you referring to an 	Do you see at the top, this is Eastern Magnesia Talc Inc., a Johnson 4 & Johnson company? Do you see that? A. I see that. Q. And it's a memo entitled "The Cosmetics Industry." Do you see that? A. Yes. Q. And it goes through today's market. And then talks about, in Subsection B, perfumed Baby Powder. Do you see that? A. I'm struggling to find where you see perfumed Baby Powder here. Oh, Proceedings of the top, this A. I'm struggling to find where A. I'm struggling to find where Output Do you see perfumed Baby Powder here. Oh, Proceedings of the top, the top of the top
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Page 202	
¹ talc powder.	¹ Johnson & Johnson cosmetic talc products.
Do you see that? EMTals for	Q. Well, you are aware that
³ cosmetics?	³ Italy had a different product number for
A. And what is an EMTal?	4 talc used in Johnson's Baby Powder and
Q. It is a reference to	⁵ Shower to Shower, true?
6 cosmetic powder produced by Eastern	6 A. Yes.
Magnesia Talc Company.	Q. And you're are you aware
Do you see that?	8 that China had a different product code
A. I see. So we're looking at	⁹ for the talcum powder that was used in
the column under D, EMTals?	is still being used for Johnson's Baby
Q. Actually, I'm looking at the	Powder?
title. Says "EMTals For Cosmetics."	A. Yes.
A. Cosmetics.	Q. Okay. And so turn to Page 3
Q. Do you see that?	of this document. Do you see at the
A. I see that.	bottom, Dr. Poulton, EMTCO which is
Q. I'll represent to you that	Eastern Magnesia Talc Company.
is a reference to cosmetic talc?	Do you see that? "Working
MR. LOCKE: Objection.	18 to replace Johnson EMTals," which we've
MR. CHACHKES: Objection.	established was cosmetic talc?
THE WITNESS: So I I see	A. Okay.
Grade 66 which is what I recognize	MR. LOCKE: Objection.
as Johnson & Johnson's talc grade	MR. CHACHKES: Objection.
from Vermont. And that's	BY MS. O'DELL:
referenced for West Windsor.	Q. "With West Windsor EMTals
Page 203	Page 205
Page 203	
¹ BY MS. O'DELL:	¹ when and if Johnson cosmetic grades are
1 BY MS. O'DELL: 2 Q. Right.	when and if Johnson cosmetic grades are eliminated due to arsenic content."
 BY MS. O'DELL: Q. Right. A. I do not see that same grade 	 when and if Johnson cosmetic grades are eliminated due to arsenic content." Do you see that?
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	Marayen D. 196	7:54	p, Ph.D.
	Page 206		Page 208
1	THE WITNESS: I see that	1	that that's what this memo states
2	statement. I still stand by my	2	without looking at larger context.
3	statement that I've never seen	3	BY MS. O'DELL:
4	anything but Grade 66 referenced	4	Q. The words of this memo says,
5	for Johnson & Johnson cosmetic	5	"We're working to replace Johnson EMTals
6	talc.		with West Windsor EMTals when and if
7	BY MS. O'DELL:	7	Johnson cosmetic grades are eliminated
8	Q. And you've only seen in	8	due to arsenic content."
9	review of for your report, the	9	That's what the document
10	references cited by Dr. Cook and	10	says.
11	Dr. Krekeler, plus six to 12 other	11	A. That's what this says. But
12	documents, true?	12	again, I believe there's probably a
13	A. That I asked for, yes.	13	larger context.
14		14	MS. O'DELL: Move to strike.
15	are thousands and thousands of other	15	You're speculating.
16		16	BY MS. O'DELL:
	litigation, including the one that's been	17	Q. You don't know that, do you?
	marked as Exhibit 16?	18	MR. CHACHKES: Objection.
19		19	THE WITNESS: Based on the
20	depositions that there are many	20	documents I've seen, I would stand
21		21	by that statement.
22	Q. What depositions are you	22	BY MS. O'DELL:
23		23	Q. And it's your statement that
24		24	only Grade 66 was has ever been used
			•
	Page 207		Page 209
	Dr. Krekeler's.		to make Johnson's Baby Powder?
2	Q. And in regard to Exhibit 16,	2	MR. CHACHKES: Objection.
3	are cross surpervise summer and arranged	3	THE WITNESS: That's the
4			THE WITNESS: That's the
	are being used, or Johnson's cosmetic	4	only reference I have seen.
_	talc is being used for cosmetic purposes	4 5	only reference I have seen. BY MS. O'DELL:
6	talc is being used for cosmetic purposes according to this memo?	4 5 6	only reference I have seen. BY MS. O'DELL: Q. Okay.
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7 8 9	talc is being used for cosmetic purposes according to this memo? MR. CHACHKES: Objection. THE WITNESS: So I would imagine there are other documents that could corroborate that. But	4 5 6 7 8 9	only reference I have seen. BY MS. O'DELL: Q. Okay. You cited on Page 8 of your report Guilbert and Park, Page 66 and 67. And you say, "Guilbert and Park note the role of stress in changing the
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Page 210	Page 212
¹ reference again to ensure that.	¹ A. Some are books. Some are
² MR. CHACHKES: Do you have	² papers.
³ another copy?	³ Q. And fair enough.
4 MS. O'DELL: Sure.	4 MS. O'DELL: We can take a
5 It's your copy.	⁵ break.
6 MR. FROST: It's it's one	THE VIDEOGRAPHER: Remove
of the books. We can get another	your microphones. The time is
8 one if you want it.	8 2:51 p.m. Off the record.
9 MR. CHACHKES: That's fine.	9 (Short break.)
THE WITNESS: Yes.	THE VIDEOGRAPHER: Okay. We
¹¹ BY MS. O'DELL:	are back on the record. The time
Q. And that does not relate to	is 4:16 p.m I mean 3:16 p.m.
¹³ talc deposits in Vermont, correct?	13 Sorry.
14 A. It could.	14 BY MS. O'DELL:
Q. Does it reference excuse	Q. Dr. Poulton, let me ask you
¹⁶ me. It doesn't reference talc	to look at Page 11 of your report.
occurrences in Vermont, true?	A. Page 11 of my report. Okay.
A. That's a more general	Q. And you state that Dr. Cook
¹⁹ quotation from a more general section of	¹⁹ misrepresents the arsenic content of talc
²⁰ that book, not specifically referenced in	ore for cosmetic applications.
²¹ my report or the book for Vermont talc.	And your criticism, at least
Q. Or talc in general?	in part, is that he cites a 2006 test
A. Or talc in general.	23 report.
MS. O'DELL: I'm just going	Do you see that?
Page 211	Page 213
to go ahead and mark the binder	1 A. Yes.
that's been provided as	Q. Is it is it your opinion
Exhibit 17.	3 that the talc mines in Vermont did not
4 MR. CHACHKES: Okay. We've	4 have high levels of arsenic?
been going an hour and 20 minutes.	5 A. The test results I've seen
6 Maybe take a break at some point?	6 indicated that there is arsenic. It was
7 MS. O'DELL: Yeah, that's	7 something that they were managing. Some
8 fine.	8 zones of the mine had fractures that were
⁹ BY MS. O'DELL:	9 coated with arsenic-bearing minerals that
DI MS. O BEEE.	
10 O Let me just identify this	_
Q. Let me just identify this	10 they identified. Other areas of the mine
¹¹ for the record and we can take a break.	they identified. Other areas of the mine did not have those zones of arsenic.
for the record and we can take a break. (Document marked for	 they identified. Other areas of the mine did not have those zones of arsenic. That's my understanding.
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for the record and we can take a break. (Document marked for identification as Exhibit Poulton-17.)	 they identified. Other areas of the mine did not have those zones of arsenic. That's my understanding. Q. And the documents also say that material that was in silos and
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11 for the record and we can take a break. 12 (Document marked for 13 identification as Exhibit 14 Poulton-17.) 15 BY MS. O'DELL: 16 Q. So Exhibit 17 are the	they identified. Other areas of the mine did not have those zones of arsenic. That's my understanding. Q. And the documents also say that material that was in silos and weathered could also have higher levels
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	Page 214		Page 216
1	Q. So would the limit of your	1	A. Could we look at his report
2	criticism be that Dr. Cook cited in part	2	specifically in that section?
3	for his opinion that some of the talc ore	3	Q. Do you disagree with that
4	had high levels of arsenic, that he cited	4	statement?
5	a 2006 report?	5	A. I would want to see the
6	MR. CHACHKES: Objection.	6	statement.
7	THE WITNESS: That is one of	7	Q. Let me ask you, do you
8	the criticisms that I make here.	8	disagree with the statement that in
9	BY MS. O'DELL:	9	certain areas of the Vermont talc mines
10	Q. But you're not stating that	10	there were high levels of arsenic?
11	the ore in the	11	A. So I think we would want to
12	Argonaut/Hamm/Hammondsville mine did not	12	talk about specific mines sourced for
	have a high level of arsenic in parts?	13	Johnson & Johnson talc and what the
	That's not your criticism?	14	specific levels of arsenic are instead of
15	A. So I agree that there are	15	saying simply high levels in all Vermont
16	zones where they've identified higher	16	mines.
17	arsenic that they were managing.	17	Q. Okay. Let me show you what
18	Q. The arsenic problem in the	18	I'm going to mark as Exhibit Number 18
19	Vermont mines was an ongoing problem	19	for this deposition.
	throughout the time that talc was being	20	(Document marked for
	mined for purposes of cosmetic powders,	21	identification as Exhibit
	true?	22	Poulton-18.)
23	A. So you say it was an ongoing	23	BY MS. O'DELL:
24	problem?	24	Q. Have you seen this document
	1		*
	D 215		D 017
	Page 215	1	Page 217
1	Q. Correct.		before?
2	Q. Correct.A. Throughout the history of	2	before? A. I believe I have.
	Q. Correct. A. Throughout the history of using Vermont talc?	3	before? A. I believe I have. MR. CHACHKES: Just for the
2	Q. Correct.A. Throughout the history of using Vermont talc?Q. Correct.	3 4	before? A. I believe I have. MR. CHACHKES: Just for the record, it's also Downey-12,
2 3 4 5	Q. Correct.A. Throughout the history of using Vermont talc?Q. Correct.A. I think I would want to look	2 3 4 5	before? A. I believe I have. MR. CHACHKES: Just for the record, it's also Downey-12, right?
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Page 220 Page 218 ¹ source J&J talc, true? ¹ then see if the certificates of ² acceptance were created for those samples A. I see reference to Rainbow. ³ So I would first want to know if Rainbow ³ or if they were rejected. ⁴ was a source for Johnson & Johnson talc Q. Have you seen arsenic test ⁵ results of product or processed talc? ⁵ at this particular date. A. I would have to go back and Q. West Windsor was the processing plant for cosmetic talcs, ⁷ look at data to refresh my memory specifically on arsenic. True. Q. But you -- as you're sitting A. 10 Q. And if you look down in the here today, you cannot identify --¹¹ page -- first page, third paragraph, it A. I cannot name specific ¹² says, "High, e.g., six parts per million samples. 13 arsenic" -- "soluble arsenic contents of Q. And you don't recall at this 14 mill feed through the West Windsor mill point seeing test results for specific ¹⁵ contribute to reduced recoveries and samples, fair? A. I would have to refresh my ¹⁶ milling rates." 17 Do you see that? memory if I saw them in a table or 18 A. I see that sentence. document. 19 Q. At West Windsor part of the 19 Q. But you don't recall as you ²⁰ mill recovery problem, at least as been sit here today? ²¹ ascribed to a high fines content in the A. As I sit here right now ²² feed and to low pH both of which ²² without the documents in front of me, I ²³ contribute to increased soluble arsenic? don't recall. A. Yes. Q. Let me show you what I've Page 219 Page 221 Q. And so Munro is reporting ¹ marked as Exhibit 19. ² high levels of arsenic at the West (Document marked for ³ Windsor feed, correct? identification as Exhibit A. At West Windsor. West Poulton-19.) ⁵ Windsor also produced industrial tale, is BY MS. O'DELL: ⁶ my understanding. Q. Have you seen this before? Q. What's the basis for that A. I believe so. understanding? Q. And this is a memo from A. I have seen some reports Mr. McCarthy, Ed McCarthy dated 2006. 10 that indicated material that wasn't 10 If you'll turn to Page 4 of ¹¹ within spec for Johnson & Johnson Grade 11 the document there's a section entitled 12 66 was sold to industrial buyers for 12 "Vermont." ¹³ other applications. And if memory serves 13 Do you see that? 14 me, the number of silos at West Windsor, 14 A. Yes. 15 the ones for Grade 66 are specifically Q. It says, "The Vermont ¹⁶ marked for Grade 66. And there are operation consists of the Argonaut mine." 17 others that are not marked for Grade 66, Do you see that? presumably because they don't hold Grade 18 A. Yes. ¹⁹ 66 talc. Q. And if you'll look down two Q. Are you testifying that ore more paragraphs, the paragraph beginning ²¹ used in Baby Powder did not test high for "The mine." 21 ²² arsenic? 22 Do you see that? 23 A. I think we again would have A. Yes. 24 ²⁴ to look at individual test samples and Argonaut was one of the

Page 222 Page 224 ¹ mines that sourced Johnson's Baby Powder, A. I see that paragraph. ² true? Q. And you assert that the --³ Dr. Krekeler's criticism of the sampling True. Α. 4 that was done on that trip, if you Q. It says, "The mine has a ⁵ poor" -- "a history of poor operation, recall, their -- they visited four mines primarily due to management shortcomings, and they took eight samples. ⁷ inadequate stripping, poor productivity, Do you recall that? ⁸ ore variability, arsenic and serpentine A. Yes. contamination, and water management have Q. And -- and Dr. Krekeler ¹⁰ all been issues in recent years." criticized that sampling process as being 11 Do you see that? inadequate to evaluate the mines for 12 A. I see that. purposes of determining if they were 13 Q. "And because of this, it has appropriate sources of -- for Baby Powder been difficult to upgrade the product or cosmetic powder? 15 A. I believe that was his line." 16 16 Do you see that? conclusion. 17 17 A. Yes. Q. And it's your opinion that 18 Q. According to Mr. McCarthy, eight samples is a sufficient number in arsenic contamination had been an issue order to adequately evaluate four for some period of years, correct? cosmetic mines, is that your opinion? 21 A. I don't know what his time A. So we need to be very frame is for history. careful about the word evaluate. 23 23 Q. But he says in recent years. Q. How do you use evaluate? A. Let's see. Where -- could So you can use evaluate to Page 225 Page 223 ¹ you refresh my memory on where it says ¹ look at business opportunities, and that ² is, I believe, what Mr. Crouse stated was ² recent years? Q. The paragraph we were just ³ the purpose. ⁴ reading from: "The mine has a history." He was looking specifically Do you see that? ⁵ for potential prospect areas. The report 6 is a summary of that trip with 6 A. Has a history... 7 Oh I see. Okay. ⁷ recommendations and opportunities Q. So arsenic contamination had 8 identified. And in that report he talked been a problem for some years, true? about potential joint ventures with 10 A. So --¹⁰ Chinese state-owned companies. So he was 11 Q. That's what the document ¹¹ there looking at business opportunities says, correct? and not conducting an exploration 13 A. In recent years --13 program. 14 14 Q. That's what the document Q. And Dr. Crouse is -- is a says, correct? geologist, true, or Mr. Crouse is a 16 A. It says recent years. 16 geologist, true? 17 17 Q. All right. Let me ask you A. I don't know what his -- his to turn in your report to Page 12. And background is. you're referring to a trip that 19 Do you know his role at Q. exploration -- exploratory trip that was Imervs? undertaken by David Crouse and others to 21 A. I do not. explore potential new mines to source 22 Q. Do you know whether any Baby Powder. ²³ further sampling was done to evaluate the

Do you see that?

24

geology of those mines?

	MPägeib. 196	591, Ph.D.
	Page 226	Page 228
1	A. I do not know what was	1 Powder?
2	conducted after his field trip.	A. So I believe Rio Tinto was
3	Q. It'd be fair to say that	3 doing that before Imerys bought those
4	eight samples of four mines is not a	operations. So we'd need to look at when
5	representative number of samples to	⁵ Rio Tinto was doing work and and when
6	evaluate the geology of those mines,	6 it was Imerys.
7	true?	Q. For purposes of our
8	A. He was not there to sample	8 discussion, there were predecessor
9	the geology. He was there to look at	⁹ companies to Imerys. I'm going to refer
10	potential business opportunities, is my	to them globally as Imerys.
11	11	A. Okay.
12	Q. Certainly evaluating a	Q. Do you know when Imerys
13		began to source cosmetic talc for Baby
14	involve evaluating the geology of the	Powder?
15	<u> </u>	A. I believe it was around
16	A. Not necessarily at this	16 2003 .
17		Q. And the trip that you refer
18		to that Mr. Crouse took was in 2004,
19		correct?
20		A. I would want to look at that
21	was?	document just to confirm the date.
22	MR. CHACHKES: Objection.	Q. Let me ask you, have you
23	MR. LOCKE: Objection.	²³ been hired or consulted with any mining
24	THE WITNESS: I I	²⁴ companies for purposes of leading a trip
	D 227	
	Page ///	P_{age} 220
1	Page 227	Page 229
1 2	BY MS. O'DELL:	¹ to explore potential mines
2	BY MS. O'DELL: Q. Is that your opinion?	 to explore potential mines MS. O'DELL: Just leave it
3	BY MS. O'DELL: Q. Is that your opinion? A. I can't say that he was	 to explore potential mines MS. O'DELL: Just leave it right there.
3	BY MS. O'DELL: Q. Is that your opinion? A. I can't say that he was there to sightsee. I can say that when	 to explore potential mines MS. O'DELL: Just leave it right there. BY MS. O'DELL:
3 4 5	BY MS. O'DELL: Q. Is that your opinion? A. I can't say that he was there to sightsee. I can say that when you go evaluate potential business	 to explore potential mines MS. O'DELL: Just leave it right there. BY MS. O'DELL: Q of any type in any
3 4 5	BY MS. O'DELL: Q. Is that your opinion? A. I can't say that he was there to sightsee. I can say that when you go evaluate potential business opportunities, you may collect a sample	 to explore potential mines MS. O'DELL: Just leave it right there. BY MS. O'DELL: Q of any type in any region?
2 3 4 5 6	BY MS. O'DELL: Q. Is that your opinion? A. I can't say that he was there to sightsee. I can say that when you go evaluate potential business opportunities, you may collect a sample just to show, say, what a typical piece	 to explore potential mines MS. O'DELL: Just leave it right there. BY MS. O'DELL: Q of any type in any region? Have you ever been hired by
2 3 4 5 6 7 8	BY MS. O'DELL: Q. Is that your opinion? A. I can't say that he was there to sightsee. I can say that when you go evaluate potential business opportunities, you may collect a sample just to show, say, what a typical piece of high grade ore would look like or some	 to explore potential mines MS. O'DELL: Just leave it right there. BY MS. O'DELL: Q of any type in any region? Have you ever been hired by a company to lead an exploratory trip to
2 3 4 5 6 7 8	BY MS. O'DELL: Q. Is that your opinion? A. I can't say that he was there to sightsee. I can say that when you go evaluate potential business opportunities, you may collect a sample just to show, say, what a typical piece of high grade ore would look like or some other interesting sample. But you're not	 to explore potential mines MS. O'DELL: Just leave it right there. BY MS. O'DELL: Q of any type in any region? Have you ever been hired by a company to lead an exploratory trip to evaluate potential mines?
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2 3 4 5 6 7 8 9 10 11	BY MS. O'DELL: Q. Is that your opinion? A. I can't say that he was there to sightsee. I can say that when you go evaluate potential business opportunities, you may collect a sample just to show, say, what a typical piece of high grade ore would look like or some other interesting sample. But you're not there to conduct an exploration program. You're there to to get a sense of what the business environment	1 to explore potential mines 2 MS. O'DELL: Just leave it 3 right there. 4 BY MS. O'DELL: 5 Q of any type in any 6 region? 7 Have you ever been hired by 8 a company to lead an exploratory trip to 9 evaluate potential mines? 10 A. Hired by a company to lead a 11 trip to evaluate exploration prospects? 12 Not hired by a company.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MS. O'DELL: Q. Is that your opinion? A. I can't say that he was there to sightsee. I can say that when you go evaluate potential business opportunities, you may collect a sample just to show, say, what a typical piece of high grade ore would look like or some other interesting sample. But you're not there to conduct an exploration program. You're there to to get a sense of what the business environment looks like and what the what the state of the businesses are and what the potential resources might be that you would investigate later. Q. Imerys was already purchasing talc from China at this time that this trip was undertaken, true? A. I would need to again look at what date he did this trip to refresh	1 to explore potential mines 2 MS. O'DELL: Just leave it 3 right there. 4 BY MS. O'DELL: 5 Q of any type in any 6 region? 7 Have you ever been hired by 8 a company to lead an exploratory trip to 9 evaluate potential mines? 10 A. Hired by a company to lead a 11 trip to evaluate exploration prospects? 12 Not hired by a company. 13 Q. And and you have not 14 consulted or been hired by a company to 15 participate in an evaluation trip like 16 the one we are talking about involving 17 Dr. Crouse, true? 18 A. Could you restate your 19 question for me again? 20 Q. Have you ever been hired to 21 consult for by a mining company for
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Page 232 Page 230 A. So those projects were Q. And is it -- is your opinion ² funded through the university to do the or criticism of Dr. Cook and Krekeler ³ projects for the companies? based on your understanding that testing Q. I'm asking if you've been ⁴ was -- for asbestos was conducted ⁵ hired by a company, not what you've done biweekly or weekly? 6 in relation to the university. MR. CHACHKES: Objection. 7 A. Outside of the university, THE WITNESS: Again, I would 8 no. 8 want to go back and just confirm 9 Q. Let me ask you to turn -with my memory when the asbestos 10 10 look at the bottom of Page 12 of your testing was done on what 11 report. And then onto Page 13, you state 11 composites that were collected at 12 12 that "Imerys 139093 states that the which times. ¹³ applicable testing protocols surpasses 13 BY MS. O'DELL: industry standards." 14 Q. Is -- was it done biweekly? 15 Do you see that? 15 A. Again, I'd want to go back 16 A. Help me find that. and look at that document with their 17 17 Q. Page 13 of your report. sampling protocols. 18 A. Okay. I see the statement. Q. But, you don't know as Q. And you say that Imerys 19 you're sitting here today? 19 conducted biweekly testing of the talc 20 A. I would need to refresh my using Test Method 7024. 21 memory. 22 22 Do you see that? (Document marked for 23 23 Yes. identification as Exhibit And that they test weekly Poulton-20.) Page 231 Page 233 ¹ composites of CT -- using the CTFA J4-1 ¹ BY MS. O'DELL: method. Q. Let me show you what I'm 3 ³ marking as Exhibit 20. Have you seen Do you see that? ⁴ that document before? A. Yes. Q. So biweekly -- is it your A. It looks familiar. ⁶ position that Imerys and J&J conducted Q. But you don't recall having ⁷ testing -- testing for purposes of seen that as you sit here today? ⁸ identifying asbestos either weekly or A. It's not foremost in my ⁹ biweekly? brain. 10 A. I would have to look at 10 Q. Okay. And it's your ¹¹ which samples were specifically for ¹¹ understanding that testing for asbestos ¹² asbestos because not all of the tests was done on a weekly or biweekly basis? were specifically for asbestos as I 13 A. I don't know that the ¹⁴ understand it. testing with the TEM was done on that 15 O. What -- what is Test basis, but samples were collected on some ¹⁶ Method 7024? ¹⁶ fixed schedule that were composited and A. I believe the TM is -- is used for the asbestos testing. transition microscopy. But again I'd 18 Q. And in fact, talc for use in want to confirm that. Baby Powder was not tested on a weekly or biweekly basis for asbestos, true? Q. Do -- do you -- do you know ²¹ what TM 7024 was designed to identify? 21 MR. CHACHKES: Objection. 22 A. No. The -- the microscopy THE WITNESS: Again, I would 23 testing is -- is not my area of 23 want to go back and look at that 24 ²⁴ expertise. testing schedule.

Page 234 Page 236 1 (Document marked for ¹ think she means composite, not deposit --2 identification as Exhibit ² "is made and sent to an external lab for Poulton-21.) 3 TEM." ⁴ BY MS. O'DELL: Do you see that? 5 Q. Let me show you what I'm A. Yes. ⁶ marking as Exhibit 21. You'll see this Q. So only quarterly testing is the deposition of -- the front page of was done for purposes of asbestos? the deposition of Julie Pier. MR. CHACHKES: I'm just Do you see that? 9 going to object to providing an 10 A. Yes. 10 incomplete part of her depo. 11 Q. And I'll represent to you BY MS. O'DELL: 11 ¹² that Ms. Pier was the head of testing for Q. Okay. That was what was --13 Imerys, and she testified as a corporate ¹³ her testimony was. ¹⁴ representative for testing from 1989 to 14 A. So I haven't seen the whole ¹⁵ the present. I'll represent that to you. deposition. I know that the silos were sampled at regular intervals as they were ¹⁶ If I'm incorrect about that, I'm sure ¹⁷ your counsel will weigh in. being filled. So there was sampling But she was a corporate ¹⁸ being done. How often the TEM actual 19 representative, and she testified to bind measurements were done, this indicates ²⁰ the company on the testing that was quarterly, but on a composited sample performed on Johnson & Johnson talc. ²¹ that was taking frequently during 22 ²² filling. A. I'm sorry. Your voice 23 ²³ dropped off for a minute. You said she Q. Quarterly, a quarterly ²⁴ was -- and part of your sentence dropped ²⁴ testing was performed. Page 237 Page 235 A. Quarterly testing on a ¹ off. Q. Her testimony binds the ² sample that was taken at regular ³ intervals during filling. ³ company as to how they were testing ⁴ Johnson & Johnson talc for asbestos. Q. So according to Ms. Pier A. Okay. Thank you. ⁵ neither weekly or biweekly testing for 6 asbestos was conducted, at least for the Q. Now, she was asked a series period of 1989 forward? of questions regarding the testing for asbestos. MR. CHACHKES: Objection. 9 9 BY MS. O'DELL: If you turn to Page 219. 10 Let me just go back. She's Q. True? Her testimony, it was ¹¹ quarterly. ¹¹ asked about testing for various things. And she gets to TEM, which you understand 12 A. So she says TEM quarterly. 13 Q. Correct. ¹³ to be transmission electron microscopy. A. Correct. A. Does that imply as well that 15 the XRD was only done quarterly or PLM Q. And she said, "The TEM ¹⁶ quarterly sample is constructed from two was only done quarterly? 17 ¹⁷ silos' composites in Vermont. So as a Q. Testing for asbestos was ¹⁸ silo is being filled a periodic sampling only done quarterly, is what her 19 is done of the entire product to testimony was. 19 20 ²⁰ represent what's in the silos. And then MR. CHACHKES: Objection. ²¹ that is composited, sent to Denver for 21 MR. LOCKE: Objection. ²² x-ray defraction, basically the J-4-1 22 THE WITNESS: Well, it says ²³ method. For those samples, a quarterly 23 TEM was done quarterly. There are ²⁴ deposit is being made and sent to" -- I 24 other tests for asbestos. So I

ase 3:16-md-02/38-MAS-RLS Document 32 MPAYeID: 196	2996-5 Filed 07/23/24 Page 62 of 96
Page 238	
would want to see, again, what was	¹ THE WITNESS: I would assume
the schedule for PLM and XRD.	² So.
³ BY MS. O'DELL:	³ BY MS. O'DELL:
	Q. If Ms. Pier testified in her
e. vere you provided wis. I let s	
deposition.	deposition that all testing for assessos
6 A. I only had one page.	6 took place on a quarterly basis, would
Q. Of her deposition?	that be important for your opinion in
8 A. Yes.	8 this case?
9 Q. So you had one page of	9 MR. CHACHKES: Objection.
Ms. Pier's deposition and one page of	THE WITNESS: I think I
John Hopkins' deposition?	would want to see the full context
12 A. Yes.	of what she was talking about.
Q. What pages were you	13 BY MS. O'DELL:
provided?	Q. You would have wanted to see
A. I would have to look in my	15 (that?)
notes and see which page I got. But it	(16) A. Yes.
was one that was cited by Cook and	Q. And that was not provided to
18 Krekeler.	you, was it?
Q. And that was the only	(A. As far as I know it was not.)
A. That was the only page I	Perhaps I missed it in the box folder.
21 got.	Q. You were provided, according
Q. In your report on Page 13,	your testimony a few minutes ago, one
²³ you cite a letter from McCrone. And the	page of the Pier deposition, true?
²⁴ Bates number is JNX JNJMX-68.	A. That's what I saw in my
Page 239	Page 241
Do you see that?	1 collection.
² A. Yes.	² (Document marked for
Q. How did you obtain this	identification as Exhibit
4 document?	4 Poulton-22.)
E 4 771	5 BY MS. O'DELL:
6 materials that I received Cook and	6 Q. Let me show you what I'm
	⁷ marking Exhibit 22, which is the letter
 Krekeler, it was related to requests I made about more information on sampling 	
	8 to Armstrong World Industries from 9 McCrone.
Brupins.	
Q. It was not ened by cook of	Do you recall this:
11 Krekeler. So this was a document that	A. I think I recall seeing
was selected by counsel and provided to	uns.
13 you.	Q. Third you che it in your
MR. FROST: Objection.	report, correct?
THE WITNESS: I don't know	A. If you say so.
that it was provided at their	Q. It's your report. Did you
insistence or whether I had	¹⁷ cite it in your report?
requested information.	MR. CHACHKES: Objection.
¹⁹ BY MS. O'DELL:	THE WITNESS: There are so
Q. And if you requested	many documents cited I would have
²¹ information, then they would have	to look at this number
selected the document that was provided	²² BY MS. O'DELL:
²³ to you, correct?	Q. Well, to be
MR. FROST: Objection.	A and look at my list
	<u> </u>

		163	
	Page 242		Page 244
1 1	nonestly.	1	from testing that are dated after 1987
2	Q. Yeah. Well, to be fair,		where cosmetic talc has tested positive
3 I	Dr. Poulton, I had already directed your		for asbestos, true?
	· · · · · · · · · · · · · · · · · · ·	4	
5	attention to it on Page 13, fair?	_	A. I don't recall. We'd have
	A. Fair.	5	to look at specific examples.
6	Q. I'd already done that. So	6	Q. Let me ask you to turn to
⁷ I	I'm not trying to be tricky. I'm just	7	I'll find it, to Page 19 of Dr. Cook's
8 8	asking you if this is what you cited.	8	report.
9 /	And I understand is that a yes? Is	9	A. On what page?
10 t	this the document that you were referring	10	Q. Page 19. If you'll look
11 t		11	
12	A. Is this the JNJMX68	12	there's a sample dated February the 25th,
13	document?	13	1992.
14		14	
15	Q. Yes.	15	Do you see that?
	A. Okay.		A. J&J-202.
16	Q. You rely on it for purposes	16	Q. That's correct.
	of this statement. It's in the last full	17	A. Yes.
1 -	paragraph at the bottom. Windsor and	18	Q. The testing entity was
	t says, "Suffice it to say that amidst	19	Cyprus. The mine was Argonaut, you know,
²⁰ 1	mutterings of 'that inspector is no	20	Hammondsville.
21 1	longer with us,' the Illinois EPA	21	They tested ore, and then
22 1	wrote" "wrote to Windsor Minerals to	22	the results revealed fibrous tremolite
23 t	the effect that they were satisfied that	23	was identified in exposures in cores at
	Windsor product is free of asbestos."		East Argonaut 7 and Black Bear mines.
	7.010		7.015
	Page 243		Page 245
1	Page 243 That's what the document	1	Page 245 Do you see that?
1	That's what the document	1 2	
1	That's what the document says, right?		Do you see that? A. I see that column.
1 2 s	That's what the document says, right? A. That's what that quote says.	2	Do you see that? A. I see that column. Q. And did you review the test
1 2 S	That's what the document says, right? A. That's what that quote says. Q. And you cited for purposes	2	Do you see that? A. I see that column. Q. And did you review the test results that are compiled in the asbestos
1 2 S 3 4 5 (That's what the document says, right? A. That's what that quote says. Q. And you cited for purposes of saying that McCrone has been of the	2 3 4 5	Do you see that? A. I see that column. Q. And did you review the test results that are compiled in the asbestos chart that Dr. Cook and Dr. Krekeler have
1 2 S 3 4 5 (6 (6 (That's what the document says, right? A. That's what that quote says. Q. And you cited for purposes of saying that McCrone has been of the opinion that Windsor product is free of	2 3 4 5 6	Do you see that? A. I see that column. Q. And did you review the test results that are compiled in the asbestos chart that Dr. Cook and Dr. Krekeler have in their reports?
1 2 s 3 4 5 (6 (7 a	That's what the document says, right? A. That's what that quote says. Q. And you cited for purposes of saying that McCrone has been of the opinion that Windsor product is free of asbestos for over 15 years, correct?	2 3 4 5 6	Do you see that? A. I see that column. Q. And did you review the test results that are compiled in the asbestos chart that Dr. Cook and Dr. Krekeler have in their reports? A. I looked at some.
1 2 S 3 4 5 (6 (7 8 8	That's what the document says, right? A. That's what that quote says. Q. And you cited for purposes of saying that McCrone has been of the opinion that Windsor product is free of asbestos for over 15 years, correct? A. That's what this document	2 3 4 5 6 7	Do you see that? A. I see that column. Q. And did you review the test results that are compiled in the asbestos chart that Dr. Cook and Dr. Krekeler have in their reports? A. I looked at some. Q. But you did not look at all?
1 2 S 3 4 5 (6 (7 8 8 9 S	That's what the document says, right? A. That's what that quote says. Q. And you cited for purposes of saying that McCrone has been of the opinion that Windsor product is free of asbestos for over 15 years, correct? A. That's what this document says.	2 3 4 5 6 7 8	Do you see that? A. I see that column. Q. And did you review the test results that are compiled in the asbestos chart that Dr. Cook and Dr. Krekeler have in their reports? A. I looked at some. Q. But you did not look at all? A. I did not look at all of
1 2 S 3 4 5 (6 C 7 8 8 9 S 10	That's what the document says, right? A. That's what that quote says. Q. And you cited for purposes of saying that McCrone has been of the opinion that Windsor product is free of asbestos for over 15 years, correct? A. That's what this document says. Q. And Mr. Stewart from McCrone	2 3 4 5 6 7 8 9	Do you see that? A. I see that column. Q. And did you review the test results that are compiled in the asbestos chart that Dr. Cook and Dr. Krekeler have in their reports? A. I looked at some. Q. But you did not look at all? A. I did not look at all of them. I tried to focus on those related
1 2 S 3 4 5 6 6 7 8 8 9 S 10 11 §	That's what the document says, right? A. That's what that quote says. Q. And you cited for purposes of saying that McCrone has been of the opinion that Windsor product is free of asbestos for over 15 years, correct? A. That's what this document says. Q. And Mr. Stewart from McCrone goes on to say, "That has always been our	2 3 4 5 6 7 8 9	Do you see that? A. I see that column. Q. And did you review the test results that are compiled in the asbestos chart that Dr. Cook and Dr. Krekeler have in their reports? A. I looked at some. Q. But you did not look at all? A. I did not look at all of them. I tried to focus on those related to the mine.
1 2 S 3 4 5 (6 C 7 8 8 9 S 10 11 § 12 (6 C 12 C 1	That's what the document says, right? A. That's what that quote says. Q. And you cited for purposes of saying that McCrone has been of the opinion that Windsor product is free of asbestos for over 15 years, correct? A. That's what this document says. Q. And Mr. Stewart from McCrone goes on to say, "That has always been our opinion and continues to be our opinion	2 3 4 5 6 7 8 9 10 11	Do you see that? A. I see that column. Q. And did you review the test results that are compiled in the asbestos chart that Dr. Cook and Dr. Krekeler have in their reports? A. I looked at some. Q. But you did not look at all? A. I did not look at all of them. I tried to focus on those related to the mine. Q. And you are aware of tests
1 2 S 3 4 5 (6 C 7 8 8 9 S 10 11 § 12 C 13 }	That's what the document says, right? A. That's what that quote says. Q. And you cited for purposes of saying that McCrone has been of the opinion that Windsor product is free of asbestos for over 15 years, correct? A. That's what this document says. Q. And Mr. Stewart from McCrone goes on to say, "That has always been our opinion and continues to be our opinion based on 15 years of closely examining	2 3 4 5 6 7 8 9 10 11 12	Do you see that? A. I see that column. Q. And did you review the test results that are compiled in the asbestos chart that Dr. Cook and Dr. Krekeler have in their reports? A. I looked at some. Q. But you did not look at all? A. I did not look at all of them. I tried to focus on those related to the mine. Q. And you are aware of tests that postdate that predate 1987 where
1 2 S 3 4 5 (6 (7 8 8 9 S 10 11 § 12 (13 } 14 t	That's what the document says, right? A. That's what that quote says. Q. And you cited for purposes of saying that McCrone has been of the opinion that Windsor product is free of asbestos for over 15 years, correct? A. That's what this document says. Q. And Mr. Stewart from McCrone goes on to say, "That has always been our opinion and continues to be our opinion based on 15 years of closely examining this product."	2 3 4 5 6 7 8 9 10 11 12 13	Do you see that? A. I see that column. Q. And did you review the test results that are compiled in the asbestos chart that Dr. Cook and Dr. Krekeler have in their reports? A. I looked at some. Q. But you did not look at all? A. I did not look at all of them. I tried to focus on those related to the mine. Q. And you are aware of tests that postdate that predate 1987 where talc used in Johnson's talcum powder
1 2 S 3 4 5 (6 C 7 & 8 9 S 10 11 § 12 C 13 1 14 t 15	That's what the document says, right? A. That's what that quote says. Q. And you cited for purposes of saying that McCrone has been of the opinion that Windsor product is free of asbestos for over 15 years, correct? A. That's what this document says. Q. And Mr. Stewart from McCrone goes on to say, "That has always been our opinion and continues to be our opinion based on 15 years of closely examining this product." And that's what you refer	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Do you see that? A. I see that column. Q. And did you review the test results that are compiled in the asbestos chart that Dr. Cook and Dr. Krekeler have in their reports? A. I looked at some. Q. But you did not look at all? A. I did not look at all of them. I tried to focus on those related to the mine. Q. And you are aware of tests that postdate that predate 1987 where talc used in Johnson's talcum powder products tested positive for asbestos?
1 2 S 3 4 5 (6 C 7 & 8 9 S 10 11 § 12 C 13 1 14 t 15	That's what the document says, right? A. That's what that quote says. Q. And you cited for purposes of saying that McCrone has been of the opinion that Windsor product is free of asbestos for over 15 years, correct? A. That's what this document says. Q. And Mr. Stewart from McCrone goes on to say, "That has always been our opinion and continues to be our opinion based on 15 years of closely examining this product." And that's what you refer to, correct?	2 3 4 5 6 7 8 9 10 11 12 13	Do you see that? A. I see that column. Q. And did you review the test results that are compiled in the asbestos chart that Dr. Cook and Dr. Krekeler have in their reports? A. I looked at some. Q. But you did not look at all? A. I did not look at all of them. I tried to focus on those related to the mine. Q. And you are aware of tests that postdate that predate 1987 where talc used in Johnson's talcum powder
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1 2 S 3 4 5 (6 C 7 2 8 8 9 S 10 11 § 12 (C 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	That's what the document says, right? A. That's what that quote says. Q. And you cited for purposes of saying that McCrone has been of the opinion that Windsor product is free of asbestos for over 15 years, correct? A. That's what this document says. Q. And Mr. Stewart from McCrone goes on to say, "That has always been our opinion and continues to be our opinion based on 15 years of closely examining this product." And that's what you refer to, correct? A. This product, and I think	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Do you see that? A. I see that column. Q. And did you review the test results that are compiled in the asbestos chart that Dr. Cook and Dr. Krekeler have in their reports? A. I looked at some. Q. But you did not look at all? A. I did not look at all of them. I tried to focus on those related to the mine. Q. And you are aware of tests that postdate that predate 1987 where talc used in Johnson's talcum powder products tested positive for asbestos? MR. CHACHKES: Objection. BY MS. O'DELL:
1 2 S 3 4 5 (6 C 7 8 8 9 S 10 11 8 12 C 13 14 15 16 17 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	That's what the document says, right? A. That's what that quote says. Q. And you cited for purposes of saying that McCrone has been of the opinion that Windsor product is free of asbestos for over 15 years, correct? A. That's what this document says. Q. And Mr. Stewart from McCrone goes on to say, "That has always been our opinion and continues to be our opinion based on 15 years of closely examining this product." And that's what you refer to, correct? A. This product, and I think there are, in reference to the Illinois EPA, there was a document that indicated	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Do you see that? A. I see that column. Q. And did you review the test results that are compiled in the asbestos chart that Dr. Cook and Dr. Krekeler have in their reports? A. I looked at some. Q. But you did not look at all? A. I did not look at all of them. I tried to focus on those related to the mine. Q. And you are aware of tests that postdate that predate 1987 where talc used in Johnson's talcum powder products tested positive for asbestos? MR. CHACHKES: Objection. BY MS. O'DELL: Q. True? A. I I don't recall that, so
1 2 8 3 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	That's what the document says, right? A. That's what that quote says. Q. And you cited for purposes of saying that McCrone has been of the opinion that Windsor product is free of asbestos for over 15 years, correct? A. That's what this document says. Q. And Mr. Stewart from McCrone goes on to say, "That has always been our opinion and continues to be our opinion oased on 15 years of closely examining this product." And that's what you refer to, correct? A. This product, and I think there are, in reference to the Illinois EPA, there was a document that indicated what the Illinois EPA was looking at was	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Do you see that? A. I see that column. Q. And did you review the test results that are compiled in the asbestos chart that Dr. Cook and Dr. Krekeler have in their reports? A. I looked at some. Q. But you did not look at all? A. I did not look at all of them. I tried to focus on those related to the mine. Q. And you are aware of tests that postdate that predate 1987 where talc used in Johnson's talcum powder products tested positive for asbestos? MR. CHACHKES: Objection. BY MS. O'DELL: Q. True? A. I I don't recall that, so we'd have to look at some specific
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1 2 5 3 4 5 6 6 6 7 8 8 9 5 10 11 8 12 6 14 15 16 17 18 1 19 1 12 12 14 12 15 16 17 18 1 19 1 12 12 14 15 16 17 18 1 19 1 12 12 14 15 16 17 18 1 19 1 12 12 14 15 16 16 17 18 18 18 19 18 19 18 18 18 18 18 18 18 18 18 18 18 18 18	That's what the document says, right? A. That's what that quote says. Q. And you cited for purposes of saying that McCrone has been of the opinion that Windsor product is free of asbestos for over 15 years, correct? A. That's what this document says. Q. And Mr. Stewart from McCrone goes on to say, "That has always been our opinion and continues to be our opinion based on 15 years of closely examining this product." And that's what you refer to, correct? A. This product, and I think there are, in reference to the Illinois EPA, there was a document that indicated what the Illinois EPA was looking at was potentially industrial talc and not cosmetic grade talc, if my memory is	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Do you see that? A. I see that column. Q. And did you review the test results that are compiled in the asbestos chart that Dr. Cook and Dr. Krekeler have in their reports? A. I looked at some. Q. But you did not look at all? A. I did not look at all of them. I tried to focus on those related to the mine. Q. And you are aware of tests that postdate that predate 1987 where talc used in Johnson's talcum powder products tested positive for asbestos? MR. CHACHKES: Objection. BY MS. O'DELL: Q. True? A. I I don't recall that, so we'd have to look at some specific examples, those specific tests. Q. And I'm I'm as you're
1 2 5 3 4 5 6 6 6 7 8 8 9 5 10 11 8 12 6 14 15 16 17 18 1 19 1 12 12 14 12 15 16 17 18 1 19 1 12 12 14 15 16 17 18 1 19 1 12 12 14 15 16 17 18 1 19 1 12 12 14 15 16 16 17 18 18 18 19 18 19 18 18 18 18 18 18 18 18 18 18 18 18 18	That's what the document says, right? A. That's what that quote says. Q. And you cited for purposes of saying that McCrone has been of the opinion that Windsor product is free of asbestos for over 15 years, correct? A. That's what this document says. Q. And Mr. Stewart from McCrone goes on to say, "That has always been our opinion and continues to be our opinion oased on 15 years of closely examining this product." And that's what you refer to, correct? A. This product, and I think there are, in reference to the Illinois EPA, there was a document that indicated what the Illinois EPA was looking at was potentially industrial talc and not	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Do you see that? A. I see that column. Q. And did you review the test results that are compiled in the asbestos chart that Dr. Cook and Dr. Krekeler have in their reports? A. I looked at some. Q. But you did not look at all? A. I did not look at all of them. I tried to focus on those related to the mine. Q. And you are aware of tests that postdate that predate 1987 where talc used in Johnson's talcum powder products tested positive for asbestos? MR. CHACHKES: Objection. BY MS. O'DELL: Q. True? A. I I don't recall that, so we'd have to look at some specific examples, those specific tests. Q. And I'm I'm as you're sitting here today, now we've been

MPageID:	191564, Ph.D.
Page	Page 248
¹ Italian talc.	Q. And there are two samples
But as you're sitting here	² being tested, Sample A and Sample B.
³ today, your testimony is that you're	Do you see that?
⁴ not you have not reviewed test results	4 A. Yes.
⁵ from tests prior to May 21, 1987, that	And going down the page, the
6 MR. CHACHKES: Objection.	summary and conclusions, it says, "X-ray
7 THE WITNESS: No, that's not	defraction studies indicated a trace of
8 what I said.	8 tremolite and actinolite in CSM RI Sample
9 BY MS. O'DELL:	9 Number 16."
Q. I wasn't finished.	Do you see that?
11 A. Oh, sorry.	A. I see that.
Q. But so you so my	Q. And Colorado School of Mines
question is, are you aware of test	is a respected institution in the world
results prior to 1987 reporting the	of geology, fair?
presence of asbestos in talc used in	A. I have to say under oath
16 Johnson's Baby Powder?	that a rival school is respected, yes.
A. I don't recall those tests.	Q. And if you turn over to
18 But if we look at specific examples	Page 2 of the results. We're talking
you're thinking of, we can see where	about microscopic analyses of the of
they're from.	the as-received samples.
Q. And certainly you would	Do you see that?
agree with me that there were numerous	A. I see that sentence.
23 tests listed in the table compiling	Q. And they note tremolite and
24 asbestos test results that were dated	actinolite in Sample Number 16.
assested test results that were dated	— definition in Sample Palmoer 10.
	e 247 Page 249
¹ prior to 1987?	Page 249 Do you see that?
prior to 1987? A. Yes. There are tests before	Page 249 Do you see that? A. Yes.
 prior to 1987? A. Yes. There are tests before 1987. 	Page 249 Do you see that? A. Yes. Q. And so this would be an
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MP age ID: 196	501, Ph.D.
Page 250	Page 252
1 samples.	1 A. Wait, which date are we
Q. And if just you know,	2 looking at?
3 the document states that these are two	3 Q. October 12, 1971.
Vermont final product samples, talking	And that's J&J-23?
5 about final talcum powder product	5 Q. Yes.
6 samples.	A. And it's Shower to Shower?
Do you see that on Page 1?	Q. Yes. Do you see that it has
MR. FROST: Objection.	8 traces of of chrysotile?
9 THE WITNESS: It doesn't	9 Do you see that?
follow necessarily, because it	A. Yeah. I'm reading the
says product that it's going to be	description below it. Is that unrelated?
cosmetic grade.	Q. That is unrelated to that.
13 BY MS. O'DELL:	13 It had chrysotile, correct?
	MR. CHACHKES: Objection.
Q. That and it's your benefit	<u> </u>
that is it your benefithat industrial	— THE WITHESS. In the 31(323)
grade tale is well, strike that.	16 BY MS. O'DELL: 17 O Ves
Let me ask you to tam,	<u>Q.</u> 103.
Dr. Poulton, to Exhibit 28, Hopkins 28.	A. That's what it says. We
And if you'll look on Page 1	would want to look at that full report.
you'll see a July 7th can you not find	Q. But if if you'll go
it, ma'am?	further, Page 2, you'll see on Line 3,
A. It's a deep excavation.	²² August 24, 1972, there is a sample of
Q. Page 1.	²³ Shower to Shower.
A. Okay.	Do you see that?
Page 251	Page 253
1 Q. You'll see July 7, 1971.	¹ A. August 24, 1972, JNJ29.
² It's at J&J-15. Do you see that about	² Sperry Rand?
³ midway down the page?	³ Q. Yes. "Shower to Shower was
4 A. Yes.	4 tested, and the test found asbestos
5 Q. That's Vermont talc.	⁵ fibers could be detected in the sample."
Do you see that?	6 Do you see that?
7 A. Yes.	A. I see that there was
8 Q. It's processed talc.	8 discussion of whether that was a true
Do you see that?	9 finding.
10 A. Sample 344-L?	Q. Where do you see that?
Q. Yes. And it tested positive	11 A. I remember that report.
for tremolite and actinolite.	_
	Q. From what? A. I remember a discussion
Do you see that.	
Ti. Tocc that.	about Sperry Rand doing testing and
Q. If you go down further,	whether or not their methodology was able
16 October 12, 1971, do you see that,	16 to detect asbestos.
17 J&J-23?	Q. What methodology are you
18 A. Yes.	18 referring to?
McCrone tested Shower to	A. I seem to recall and we can
Shower.	²⁰ pull up that document. That perhaps they
	101 1 CITA
Do you see that?	21 used SEM.
22 A. Yes.	Q. Okay. Let me just take you
22 A. Yes. Q. It had traces of tremolite.	Q. Okay. Let me just take you to the bottom of the page, 1221 1973.
22 A. Yes.	Q. Okay. Let me just take you

Page 256 Page 254 1 JNJ263? O. And Windsor 66 ore and A. 2 Correct. Colorado School of product was tested and tremolite and chrysotile was found using TEM, correct? Mines. A. And the next column says 4 Yes. A. possible contamination. So we'd want to Okay. They understand how to test talcum powder for asbestos, don't look at the details on that. they, Dr. Poulton? Q. Multiple test results 8 MR. FROST: Objection. showing asbestos from tests dated prior to 1987 were provided to you, THE WITNESS: I don't know Dr. Poulton, true? 10 what they understand. 11 MR. FROST: Objection. BY MS. O'DELL: 11 12 12 Q. Do you have any reason to THE WITNESS: Yes. We've believe that they are not experts in 13 looked at a number of samples in testing talc for asbestos? 14 this chart. A. In 1973, I think a lot of BY MS. O'DELL: 16 people were wondering how to do it. Q. And the statement in the Q. Okay. You are not an expert 17 McCrone letter that Windsor's product is in it? free of asbestos for over 15 years is 19 19 incorrect based on the testing data that A. I am not an expert in it. we reviewed, correct? 20 Q. And the finding from the ²¹ Colorado School of Mines, using TEM on a MR. CHACHKES: Objection. 22 ²² Vermont talc sample was they identified THE WITNESS: I disagree chrysotile, correct? 23 with that statement. MR. CHACHKES: Objection. ²⁴ BY MS. O'DELL: Page 255 Page 257 THE WITNESS: And again, we Q. On Page 14 of your report, 1 ² you assert that Dr. Krekeler's theory 2 would want to look at that 3 that composite sampling should not be 3 document and the testing that they ⁴ used for cosmetic products -- in other 4 did. BY MS. O'DELL: ⁵ words, Dr. Krekeler asserts that ⁶ composite samples is an inappropriate Q. Do you have any reason to ⁷ method for cosmetics where there may be believe that that is not an accurate summary of that test result? trace amounts of carcinogens. A. The details are important in Do you recall that from his 10 looking at the results and so we want to report? 11 look at what the samples are and how the 11 A. I recall him saying that. 12 testing was done, make sure there was no 12 Q. And it's your opinion that ¹³ contamination. Make sure proper that is incorrect? methodologies were done. A. I disagree with him that you 15 Q. You're not an expert on the can't use composite sampling. proper methodologies, correct? Q. And you cite Stanley as a 16 17 A. I am not. basis for your disagreement with 18 Q. And let me ask you to look Dr. Krekeler, correct? further on the next page in 19 -- midway 19 A. Stanley is an example of down the page, May 8, 1974. You'll see sampling theory. ²¹ JNJ66. 21 Q. And you rely on Stanley in 22 your critique of Dr. Krekeler, true? A. Next to McCrone? 23 A. I cite Stanley as an -- as O. Yes. 24 ²⁴ an example of sampling theory. A. Yes.

	Marie De 196	50n, Ph.D.
	Page 258	Page 260
1	Q. And in fact, Stanley is an	THE WITNESS: Correct.
2	article that deals with sampling	² BY MS. O'DELL:
3	involving gold, correct?	Q. And in terms of of
4	A. No.	4 sampling tale, it would be fair to say
5	Q. That's not correct?	5 that the minerals of interest, asbestos,
6	A. So Stanley's model was	fibrous tale, chromium, cobalt and
7	generalizable as he states in his paper	nickel, they would not be homogenous
8	and we can and we can look at the	8 across the ore body, true?
9	quote, I believe to all geologic	MR. CHACHKES: Objection.
10	materials was his statement.	THE WITNESS: Asbestos
11	Q. Okay. Let's look at	should not be homogenous across
12	Stanley.	the ore body. I believe I would
13	Exhibit 24.	need to look specifically at metal
14	(Document marked for	distribution. Because we've
15	identification as Exhibit	talked about arsenic being a
16	Poulton-24.)	function of particular fractures.
17	BY MS. O'DELL:	17 BY MS. O'DELL:
18	Q. Exhibit 24. This is the	Q. When you use composite
19	paper that you're relying on?	19 sampling like what was used in Vermont,
20	A. Yes.	20 isn't it fair to say that the sampling in
21	Q. One of the assumptions that	21 terms of isolating a particular element
22	Stanley makes is that the geological	22 that you are diluting your ability to
23	material exhibits homogenous distribution	²³ find a particular element because many,
24	of the element of interest, true?	²⁴ many samples are composited and then only
	Page 259	Page 261
1		¹ a small amount of that composited sample
2		² is tested?
3		³ A. So there are two ways that
4		4 we use composite that are different. So
5		
6	O. III fact. II vou fook at rage	
	Q. In fact, if you fook at fage	⁵ could you clarify for me which way you
7	110 on the right-hand side of the page	could you clarify for me which way youuse composite?
_	110 on the right-hand side of the page down at the bottom, do you see that	 could you clarify for me which way you use composite? Q. Well, I'm talking about the
7	110 on the right-hand side of the page down at the bottom, do you see that under, sample size and size and sample	 could you clarify for me which way you use composite? Q. Well, I'm talking about the way they use composite sampling in
8	110 on the right-hand side of the page down at the bottom, do you see that under, sample size and size and sample variance.	 could you clarify for me which way you use composite? Q. Well, I'm talking about the way they use composite sampling in Vermont. For example, they took daily
8 9	110 on the right-hand side of the page down at the bottom, do you see that under, sample size and size and sample variance. Do you see that?	 could you clarify for me which way you use composite? Q. Well, I'm talking about the way they use composite sampling in Vermont. For example, they took daily sample from certain silos, put it in a
7 8 9 10	110 on the right-hand side of the page down at the bottom, do you see that under, sample size and size and sample variance. Do you see that? A. Yes.	 could you clarify for me which way you use composite? Q. Well, I'm talking about the way they use composite sampling in Vermont. For example, they took daily sample from certain silos, put it in a bucket. That became their composite
7 8 9 10	110 on the right-hand side of the page down at the bottom, do you see that under, sample size and size and sample variance. Do you see that? A. Yes. Q. He states, "Assume that this	 could you clarify for me which way you use composite? Q. Well, I'm talking about the way they use composite sampling in Vermont. For example, they took daily sample from certain silos, put it in a bucket. That became their composite sample location.
7 8 9 10 11	110 on the right-hand side of the page down at the bottom, do you see that under, sample size and size and sample variance. Do you see that? A. Yes. Q. He states, "Assume that this geological material exhibits a homogenous	 could you clarify for me which way you use composite? Q. Well, I'm talking about the way they use composite sampling in Vermont. For example, they took daily sample from certain silos, put it in a bucket. That became their composite sample location. Are you in agreement with me
7 8 9 10 11 12	110 on the right-hand side of the page down at the bottom, do you see that under, sample size and size and sample variance. Do you see that? A. Yes. Q. He states, "Assume that this geological material exhibits a homogenous distribution of the element of interest	 could you clarify for me which way you use composite? Q. Well, I'm talking about the way they use composite sampling in Vermont. For example, they took daily sample from certain silos, put it in a bucket. That became their composite sample location. Are you in agreement with me
7 8 9 10 11 12 13	110 on the right-hand side of the page down at the bottom, do you see that under, sample size and size and sample variance. Do you see that? A. Yes. Q. He states, "Assume that this geological material exhibits a homogenous distribution of the element of interest at least at and above the scale of the	 could you clarify for me which way you use composite? Q. Well, I'm talking about the way they use composite sampling in Vermont. For example, they took daily sample from certain silos, put it in a bucket. That became their composite sample location. Are you in agreement with me there? A. Yes.
7 8 9 10 11 12 13 14	110 on the right-hand side of the page down at the bottom, do you see that under, sample size and size and sample variance. Do you see that? A. Yes. Q. He states, "Assume that this geological material exhibits a homogenous distribution of the element of interest at least at and above the scale of the sample."	 could you clarify for me which way you use composite? Q. Well, I'm talking about the way they use composite sampling in Vermont. For example, they took daily sample from certain silos, put it in a bucket. That became their composite sample location. Are you in agreement with me there? A. Yes. Q. And then they took that
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	MPägelb. 196	568	n, Ph.D. 1720/24 1 age 60 01 00
	Page 262		Page 264
1	statistically representative of that	1	relying on for your opinion in that
	population of your sample.		regard?
3	So I think in many ways you	3	A. So the two are J&J 0043746.
	could argue that this method is more	4	Q. Why don't you give that to
5	e e e e e e e e e e e e e e e e e e e	5	· · · · · · · · · · · · · · · · · · ·
	representative of the bulk, but certainly	6	me one more time, prease.
	what's important is that you're relating		A. Okay. J&J 0043746 and
7	all of your sampling to the material	7	Downey Exmon 31.
8	that's coming through.	8	Q. And do you cite those in
9	Q. What what are you relying	9	your report?
10	on for your understanding that there was	10	A. I don't remember if I do or
11	w partitional extensions provides that to the		not.
12	place in creating composite samples?	12	Q. And you said J&J 007437
13	A. I believe I saw a document	13	A. No. 004374746.
14	that talked about once they took the	14	Q. Okay. And that's not
15	samples that they collected as they were	15	included on your reliance list,
16	filling the silo, I I believe I saw	16	Dr. Poulton.
17	somewhere that they talked about how they	17	A. Is it not?
18	broke that down to to collect a sample	18	Q. No.
19	to do the microscopy.	19	A. Okay.
20	Q. Did you cite that document	20	Q. Dr. Poulton, you realize
21	in your report?	21	today that this is my opportunity to
22	A. I don't remember if I did.	22	understand what you've seen and you
23	MS. O'DELL: Why don't we go	23	relied on and what your opinions are in
24	off the record.	24	this case?
	on the record.	-	uns case!
	Page 263		Page 265
1	Page 263 MR. CHACHKES: Take a break,	1	Page 265 A. Yes.
1 2	_	1 2	_
	MR. CHACHKES: Take a break, it's been about an hour?		A. Yes.Q. And and so these
2	MR. CHACHKES: Take a break,	2	A. Yes.
2 3	MR. CHACHKES: Take a break, it's been about an hour? MR. FROST: Yeah, I'd say it's been about an hour and 5	2	A. Yes. Q. And and so these documents and you said Downey 51? A. Yes.
3 4	MR. CHACHKES: Take a break, it's been about an hour? MR. FROST: Yeah, I'd say it's been about an hour and 5 minutes.	3 4	A. Yes. Q. And and so these documents and you said Downey 51? A. Yes. Q. And Downey 51 is not on your
2 3 4 5	MR. CHACHKES: Take a break, it's been about an hour? MR. FROST: Yeah, I'd say it's been about an hour and 5 minutes. THE VIDEOGRAPHER: The time	2 3 4 5	A. Yes. Q. And and so these documents and you said Downey 51? A. Yes. Q. And Downey 51 is not on your reliance list.
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	MPagelb. 196	969	7, Ph.D.
	Page 266		Page 268
1	your criticisms of if you have any, of	1	Do you see that?
	Dr. Cook and Dr. Krekeler regarding	2	A. I do.
	fibrous talc in your report?	3	Q. Let me ask you to look at
4	A. Could you	4	
5	Q. Are all your opinions or	5	Exhibit 15. And I'll mark it for
6	criticisms of Dr. Cook and Krekeler in	6	purposes of your deposition as
7		7	Exhibit 25.
8	your report?	8	(Document marked for
9	A. I am not sure that I talk	9	identification as Exhibit
10	specifically about fibrous tale. I	10	Poulton-25.)
11	believe I focused on asbestos minerals.	11	BY MS. O'DELL:
12	Q. So if you have any	12	Q. Did you review this document
13		13	in in reaching your opinions in this
14	regarding fibrous talc, they would be in	1	case?
	your report, fair?	15	A. I did.
16	A. I would have to take a quick	16	Q. And let me ask you well,
17	look and see if I ever mentioned fibrous	17	I tried hard not to mark this, but I've
	talc.		just got to. So there you go.
19	Q. I will I will say that	19	Let me also mark what was
20	I've looked and you don't mention fibrous	20	previously identified as Downey 14. And
	tale.	21	I'm going to mark it Exhibit 26 to your
22	A. Okay.	22	deposition.
23	Q. And I'm trying to make sure	23	(Document marked for
24	I understand, because this is my chance	24	identification as Exhibit
	i minute in		
	D 2/7	+	D 260
	Page 267		Page 269
	with you today, that if you don't have	1	Poulton-26.)
2	with you today, that if you don't have any opinions in your report regarding	2	Poulton-26.) BY MS. O'DELL:
3	with you today, that if you don't have any opinions in your report regarding fibrous tale, that means you're not going	2	Poulton-26.) BY MS. O'DELL: Q. And these documents relate
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2 3 4 5 6	with you today, that if you don't have any opinions in your report regarding fibrous tale, that means you're not going to have any if we get to the point of trial, fair? A. I'm I'm not quite sure	2 3 4 5	Poulton-26.) BY MS. O'DELL: Q. And these documents relate to the a drill a core drill program that was undertaken at the Hammondsville mine, you know, in first reported in
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PageID:19	99701, 111.11.
Page 270	Page 272
¹ the criticisms of the drilling program at	¹ of of dikes within the actual talc
² Hammondsville was the distance between	² ore, true?
³ the particular drill holes, true?	³ A. We'd have to look at that
⁴ A. Yes. Mining engineers and	⁴ specific situation.
⁵ geologists always want more data.	⁵ Q. Do you recall that, having
6 Q. Right. And, in fact, for	⁶ reviewed the documents?
⁷ the Hammondsville exploration, these	⁷ A. I've reviewed documents and
8 drill holes, some of them were nearly	8 I've seen reference to small stringers
⁹ 500 feet apart, correct?	⁹ that ultimately were not in the ore body.
A. So they say some holes are	Q. And but they occurred
11 nearly 500 feet from near shaft drill	11 within the talc deposit, correct?
12 holes. But again, it's the context of	A. Well, if you think of talc
what part of the ore body they are	¹³ deposit including the surrounding
14 sampling.	14 non-talc rock.
Q. And in terms of the	Q. I'm thinking of within the
precision of the data that can be gleaned	¹⁶ actual deposit where the talc is located,
¹⁷ from core drilling, the closer the holes	¹⁷ true?
are together, the more data that can be	A. So we would want to look at
19 learned about the underlying ore body,	19 those specific examples.
20 fair?	Q. Do you recall having
A. Not necessarily. So you	²¹ reviewed documents, both from
22 could have	²² Hammondsville and Argonaut that describe
Q. Is that a general principle?	²³ in detail the presence of dikes within
A. No, I wouldn't I wouldn't	the talc ore body?
The field wouldn't five didn't	ine tare ore oday.
Page 271	
¹ necessarily generalize, because it very	¹ A. I remember seeing the
 necessarily generalize, because it very much depends on what you're trying to 	¹ A. I remember seeing the ² presence of dikes. I would have to
¹ necessarily generalize, because it very	A. I remember seeing the presence of dikes. I would have to confirm whether or not they were
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	MP age 15.2196	3 71	
	Page 274		Page 276
1	body at Argonaut, true?	1	talc ore?
2	A. That's what the caption	2	A. It's present within the
3	says.	3	talc.
4	Q. Yes. And within the center	4	Q. And in terms of delineating
5	of this is actually serpentine, correct?	5	distinctions in the talc deposit, the
6	A. That's how it's mapped.		greater number of drill cores that you
7	Serpentinite.		have to gather data, the greater
8	Q. And within the outside		precision by which you're going to
9	the serpentinite there is a there are		understand the contours of the particular
10	1		talc deposit, true?
11	A. You're looking specifically	11	A. So I would say that first
12	at the vertical dashes? Yes.	12	and foremost, you place your drill holes
13	Q. Right here in the what in	1	according to the geology that you're
14	the nomenclature is the is the little	1	seeking to confirm. They could be angled
	circles.	1	and actually cover more of the deposit
16	Do you see that?	1	than vertical closely spaced holes would.
17	A. So the circles are carbonate	1	• 1
18	talc rock. You had mentioned talc		information that you're trying to derive.
19	carbonate schist.	19	Q. Isn't it wouldn't you
20	Q. All right. Let's be fair	20	agree with me that when there is
21	then. This with the circles is carbonate		variations in the drill hole spacing, the
	talc rock, meaning there's more carbonate	1	thickness of the ore body, or grade, that
	than tale, correct?	1	will distort the results obtained through
24	A. I believe so. I'd have to	1	the triangulation method of drilling?
	Page 275		Page 277
	_		6
1	look at their definition.	1	A. Could you repeat that for
1 2	_		
2	look at their definition.		A. Could you repeat that for
3	look at their definition. Q. And then there's talc carbonate schist here, which is a greater amount of talc, correct?	2	A. Could you repeat that for me? Q. Happy to. If you'll look at
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2 3 4 5	look at their definition. Q. And then there's talc carbonate schist here, which is a greater amount of talc, correct?	2 3 4 5	A. Could you repeat that for me? Q. Happy to. If you'll look at MS. O'DELL: I'm done with that, Henry. Thank you.
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2 3 4 5 6 7 8	look at their definition. Q. And then there's talc carbonate schist here, which is a greater amount of talc, correct? A. I believe that's their definition. Q. And so looking at this, there is variability within the ore body	2 3 4 5 6 7 8	A. Could you repeat that for me? Q. Happy to. If you'll look at MS. O'DELL: I'm done with that, Henry. Thank you. BY MS. O'DELL: Q. Are you familiar with a
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	look at their definition. Q. And then there's talc carbonate schist here, which is a greater amount of talc, correct? A. I believe that's their definition. Q. And so looking at this, there is variability within the ore body in terms of width and length of talc, correct? A. Yes. Q. If you'll turn over to the next page, also seeing there's biotite chlorite schist within the actual ore body, correct? I'm pointing to that right there. A. Yes. Q. So dikes that occur actually within the talc ore body, correct? A. Yes. It's just a question	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Could you repeat that for me? Q. Happy to. If you'll look at MS. O'DELL: I'm done with that, Henry. Thank you. BY MS. O'DELL: Q. Are you familiar with a triangular method that's used in planning core drilling? A. It's what we did before we had computers. Q. And that's what was used in Hammondsville and Hamm and Argonaut in the '70s and early '80s, fair? A. That would be my understanding. Q. Okay. And that's what is depicted on in your report at Page 18, is a diagram using a triangulation method triangulation method. That's
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Page 280 Page 278 Q. Correct? And you include it ¹ dated May 21, 1992 that discusses the ² Hamm mine core drilling, correct? ² in your report as Figure 1-B, correct? A. Yes. A. Yes. Q. And this is a model that is Q. It was prepared as an overview of drilling that had occurred in used to evaluate ore reserves, correct? A. Yes. It can be. 1992, correct? A. I believe so. Q. And that's typically the use ⁸ of a model like this, to evaluate the O. And there were four drill grade and the volume of a particular type holes that were drilled. of ore, true? Do you see that, on page --11 I believe it's 5 of the memo. A. So that's part of what you 12 use it for. A. Yes. 13 Q. And this is a summary on Q. It's often and most often ¹⁴ used as an economic model in order to Page 5 of what was logged from the cores. understand how much product there is to Do you see that? 16 sell, true? A. Yes. 17 17 A. It's one of the uses. O. And so Hole 91 -- 92-1 has Q. And in terms of the data intervals of talc carbonate and then ¹⁹ within this model for Hammondsville, serpentinite and then it goes again to there was, in some areas insufficient talc carbonate and serpentinite. And you drill core in order to fully complete see a chloritic dike that's at 235 feet. this model, correct? Do you see that? 23 A. Probably for the areas that 23 A. I see that. they were contemplating extending the O. So there are in this Page 279 Page 281 ¹ instance two. There was not only mine into, was the way the reports were ² written. ² Argonaut, but in the Hamm mine there was ³ chloritic dikes that occurred within the Q. In addition to these drill ⁴ talc deposit, correct? ⁴ core programs 1970 and 1978 at Hamm -- at ⁵ Hammondsville, there was also drilling A. Within the deposit. You ⁶ have to put these into the context of the ⁶ that was done at Hamm mine. Do you ⁷ edges of the deposit and what was going ⁷ recall that? ⁸ to be minable ore versus waste. A. I recall drilling at Hamm. I need to look at the dates. Q. They can also occur within Q. And I'm not asking for ¹⁰ the talc deposit, true, within the talc ¹¹ specific dates. I'll represent it's as we saw for Argonaut? after the Hammondsville exploration. A. Well, it can be within the Do you recall that? 13 talc and still not be in a minable zone 13 14 A. I recall drilling at Hamm. within the talc. 15 Q. Okay. And did you look at 15 Q. Then you look at 92-2 and then Hole 92-3 and you also see chloritic 16 those drill cores? 17 A. I believe I did. dikes that occur within those drill 18 Q. Let me show you what I'm cores, correct? marking as Exhibit Number 27. 19 A. Yes. And they are actually 20 (Document marked for coded separately from the ore. 21 21 Q. They are identified as identification as Exhibit 22 chloritic dikes, true? Poulton-27.) A. They are identified as ²³ BY MS. O'DELL: 24 ²⁴ chloritic dikes, and the ore code for Q. I've handed you a memorandum

Page 284 Page 282 ¹ them is different than the -- the ¹ of this campaign. ² rock code is different than the minable Q. If you'll turn back to the ³ first page, Dr. Poulton, second ³ ore. paragraph, this document states that Q. Okay. And then if you'll ⁵ turn over to Page 6 of the memo, you'll ⁵ "fibrous amphiboles, actinolite, were ⁶ see that core samples were taken to the ⁶ observed only within the chloritized ⁷ Columbia mill and -- and tested. ⁷ mafic dikes extending into places a 8 couple of inches into the contacting talc Do you see that? A. First paragraph? ore." 10 10 O. Yes. Do you see that? 11 11 A. I see that sentence. A. Yes. 12 12 Q. And the sample that you'll O. So the chloritic dikes 13 see at the end of that paragraph was then were -- did occur in the talc ore and, pulverized to pass 325 mesh and tested according to this document, they 15 for talc content, brightness, and the contained fibrous actinolite, true? presence of arsenic and amphibole. A. So it says they extended a 17 Do you see that? couple of inches into the contacting talc 18 A. Yes. ore which doesn't mean that they're 19 necessarily going to be in a minable Q. If you'll look down further ²⁰ to the fourth paragraph, it says, middle 20 block. of the paragraph, "In the pit, arsenic Q. But they are in the talc ore ²² was observed as oxidized coatings on nonetheless, correct? 23 ²³ fractured surfaces." A. They -- they are at the edge ²⁴ of the talc ore. Do you see that? Page 283 Page 285 A. Not yet. Q. In fact, it says they extend ² into that talc ore in places? Fourth paragraph. Midway O. 3 A. A couple of inches. down. Q. Your analysis of the 4 Okay. Α. ⁵ selective mining that took place within "In the pit, arsenic was Q. observed"? 6 Vermont is based on your review of the 6 7 ⁷ core drilling that was done, correct? Yes, I see it. Α. Q. And then -- then you go on A. Core drilling was part of down to the next paragraph and it talks ⁹ that. about "XRD scanning did not reveal the 10 Q. And what years of core presence of amphibole in the drill core." drilling support -- or are you relying on 12 Do you see that? to support your opinions? 13 A. I see that sentence. A. I have a -- we're talking 13 Q. And, in fact, the portions about Argonaut now? of the core that contained amphibole were 15 Q. Any of the mines. not sampled, true? A. So we can -- we can talk 16 A. There is a companion about Argonaut. I referenced a document ¹⁸ document for this that says that anything that had actually several thousand samples from drilling in it. And I also 19 that contains amphibole is going to be ²⁰ wasted. 20 looked at the mine -- block models that 21 ²¹ were described in reports. Q. They were not -- the ²² material containing amphiboles was not Q. Of those periods of -- of sampled for purposes of testing, true? ²³ drilling, what would you say were the 24 A. It was not sampled as part ²⁴ most comprehensive, you know, drilling

Page 288 Page 286 ¹ efforts in terms of the different years? Q. Let's stick with Argonaut. A. At Argonaut? Again, I would A. I would have to look at the ³ documents. Off the top of my head I ³ have to go back and look at how many ⁴ don't remember all the years and how many ⁴ different drilling campaigns and how many ⁵ holes. ⁵ holes. Q. Would you agree with me that Q. In terms of your report, is ⁷ the 1998 drilling campaign was the -- was ⁷ there one drilling campaign that you 8 the most comprehensive that was relied on more than others? undertaken in? A. I don't know that I can say 10 A. I'd -- I'd want to confirm there was one campaign more than another, again without having the data all in ¹¹ that. 12 front of me. 12 Q. You don't remember as you're sitting here today? 13 Q. You say on Page 20 that ¹⁴ there were -- of your report, that A. As I'm sitting here without ¹⁵ looking at the document, I don't. approximately 2500 feet of core was Q. In terms of the most ¹⁶ drilled in 1998. 17 ¹⁷ reliable and comprehensive drilling that Do you see that? 18 was done at any of the talc mines, not A. I see that. 19 limiting it to Argonaut. It could be Q. And -- and you talk in terms ²⁰ Hamm, Hammondsville, or Argonaut, what of which holes were drilled and the --²¹ was the most comprehensive and reliable how far apart and -- and so forth. ²² core drilling campaign that was done? Do you see that? ²³ Can you say that? 23 A. I -- I -- yes, I see that ²⁴ I'm referencing the Figure 3 I believe. What -- what do you mean by Page 287 Page 289 ¹ comprehensive and reliable? Q. Okay. And Figure 3 is on Q. Well, planned sufficiently Page 22 of your report, correct? ³ so that the drill core holes were not too A. Yes. ⁴ far apart, that it was adequate -- the Q. And if you look at Figure 22 ⁵ cores were adequately sampled. ⁵ in your report, this is a depiction, a Do you find that there was drawing of the drill holes that were ⁷ any drilling that was more comprehensive drilled in Argonaut, correct? than another? MR. CHACHKES: Figure 22? 9 A. So these are not -- the --THE WITNESS: You said ¹⁰ the mine is like a living engineering 10 Figure 22? ¹¹ project. So there's not a static, we 11 MS. O'DELL: I said -- I was ¹² will define all of this and it's -- it's 12 trying to say Figure 3. 13 ¹³ done. You constantly add information to THE WITNESS: Okay. 14 the mine model. I can't say that there 14 MS. O'DELL: That's what I 15 is one year where the drilling was 15 meant. ¹⁶ somehow perfect, in other years it was 16 BY MS. O'DELL: ¹⁷ imperfect, without looking at each of the 17 Q. That's what you referred to, ¹⁸ drilling campaigns and what specifically 18 correct? 19 they were trying to accomplish and what 19 Α. Yes. ²⁰ information they were adding to their Q. And so -- I'm on Page 22.

22

A. At all of Vermont or --

Q. How many campaigns were

²¹ knowledge base.

²³ undertaken at Vermont?

That's what I was -- Page 22, Figure 3.

That's what I was trying to

That's...

²⁴ say, but if I didn't say that correctly.

O.

Do you see that? A. I see the figure. Q. And that's the the dirilling program that you relied on in large measure to discuss selective mining, correct? A. I can't say that I relied on this in large measure. It was one of the pieces of information I used. Q. You relied on it in reaching A. It it was part of my A. It it was part of my A. It looking at Figure 3, the parallel lines across the figure, let me just if you'll MS. O'DELL: MS. O'DELL: Q. These parallel lines, these blocks if you will, they are in blocks of To A. I see the figure. Say that the data from each hole is used. So to extrapolate the material between the holes, true? A. Not solely, because you also have blast hole drills and you have in-fill drilling. A. Not solely, because you also have blast hole drills and you have in-fill drilling. A. Not solely, because you also have blast hole drills and you have in-fill drilling. A. Not solely, because you also have blast hole drills and you have in-fill drilling. A. Not solely, because you also have blast hole drills and you have in-fill drilling. A. Not solely, because you also have blast hole drills and you have in-fill drilling. A. Not solely, because you also have blast hole drills and you have in-fill drilling. A. Not solely, because you also have blast hole drills and you have in-fill drilling. A. Not solely, because you also have blast hole drills and you have in-fill drilling. A. Not solely, because you also have blast hole drills and you have in-fill drilling. A. No you create a drill or extrapolate what is actually present between the drill core holes? A. So you create a drill it that, you can map the support of one set of data to another set of data. That's the basics basics of geostatistics. Q. And it's a model. It's not necessarily actual data on what's there, It's a model of what's estimated to be there, correct? A. It is a model. It's a model of what's estimated to be there, correct? A. It is a appropriate	Page 290	90-3 - Hill 07/23/24
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A projected to a horizontal MS. O'DELL: I'll mark it	2 0	
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Q. 165. This in many instances,	plane.	41 (Document marked for
	Q. Yes. And in many instances,	· ·
· · · · · · · · · · · · · · · · · · ·	Q. Yes. And in many instances, those holes are anywhere from 100 to as	identification as Exhibit
	Q. Yes. And in many instances, 22 those holes are anywhere from 100 to as 23 many as 150 feet apart, correct?	· ·

Page 294 Page 296 Have you seen that document Q. And this is an evaluation of ² before? the ore deposit at Argonaut? A. At Argonaut. A. Yes. Q. And it contains not only Q. And on Page 26 of your report, you reference this document, data collected in 2008, but it analyzes true? data that had been collected in prior drill core programs, correct? A. Could you give me paragraph? A. Yes. The second paragraph from the bottom. Q. And so there is data from 10 A. Krekeler improperly assumes? the time period during which talc was being sourced to Johnson & Johnson within 11 Yes. And you say he properly assumes that only drilling at a this document, correct? ¹³ core density of 50 to 100 feet on a 13 A. I would have to confirm ¹⁴ square grid pattern covering the entire that. But I believe that to be true. ore body would allow for a selective --O. And that data is relevant to ¹⁶ effective selective mining. the talc that was being mined and 17 MR. CHACHKES: You said supplied to J&J, true? 18 properly, when you meant to say 18 A. I would have to confirm 19 19 improperly. that. 20 20 MS. O'DELL: I think I said Q. And provided the data was 21 improperly. But I may not have before 2003, in your mind, that would be 22 been clear. relevant data, correct? 23 BY MS. O'DELL: A. If it was before 2003. You write he improperly And in fact, to a degree, Page 295 Page 297 ¹ assumes that drilling at core density of ¹ the data was collected after 2003 but ² dealt with the same ore bodies, it would ² 50 to 100 feet on a square grid pattern ³ covering the entire ore body would allow also have relevance, true? ⁴ effective selective mining. A. You might have to explain A. Yes. That's what I wrote. your question to me. Q. I think it's clear. That if 6 Q. And that's your opinion, data that was collected after 2003, but right? relates to the same ore body that was A. That's my opinion. And you rely on Exhibit -used to source Johnson & Johnson talc, what we have marked as Exhibit 28, and it's also relevant data? 11 it's Bates number 441340, correct? A. And so what data would that 12 A. That is one of the pieces of be that you would be referring to? ¹³ information that I used as an example. Q. It could be certain core O. And this was written in drill information. It could be other 2008, correct? 15 sampling information, correct? 16 16 A. So you could certainly A. Yes. 17 Q. And that's an appropriate -refine your model. I guess I am confused that would be an appropriate reference to about the timing of certificates of ¹⁹ evaluate the talc deposits at Argonaut, analysis that are sent to J&J. 20 ²⁰ true? Q. I didn't mention 21 certificates of analysis to J&J. I said A. So -- so 2008 they were no ²² longer producing talc for Johnson & ²² there's data in this document regarding

²³ Johnson. I referenced this report as an

²⁴ example of a mine model.

23 2002 drilling, for example, that would be
 24 very relevant to the talc that was sold

Page 298 Page 300 ¹ to J&J during that time period, correct? 1 the construction and estimate of either ² the 2002 or the 2007 model. A. I guess my answer would be Did I read that correctly? ³ it just depends on what we're talking A. You read that correctly. ⁴ about. Q. So the 1998 data that you The drilling that was done rely on in your report was deemed ⁶ in 2002 at Argonaut provides data ⁷ regarding the deposit that is relevant essentially unreliable and unusable by ⁸ for the material and constituents Rio Tinto in 2008, correct? contained in Argonaut's deposit true? MR. CHACHKES: Objection. 10 10 A. So you're asking if holes THE WITNESS: No. That's I drilled in 2002 relate to --11 believe misstating what these 12 12 Q. They're relevant? drill holes may actually 13 A. Are relevant to --13 represent. The issues that we're 14 BY MS. O'DELL: 0. 15 dealing with in this case. Q. It goes on to say, the 16 ¹⁶ historic drill data was checked for A. So because you drill and produce your model in advance of mining, accuracy, frequently the assay and logs holes that you drill in 2002 might not at geologic intervals did not coincide. 19 ¹⁹ actually be relevant until much, much Do you see that? ²⁰ later. 20 A. Yes. 21 Q. In some cases, the logged Q. Let me ask you this ²² question. Did this report evaluate rock height was not consistent with assay ²³ previous core drilling that had been done 23 data. 24 ²⁴ at the Argonaut mine? Do you see that? First Page 301 Page 299 A. I'd have to go back and look ¹ sentence of the next paragraph. 2 ² at it. A. Yes. 3 Q. And so the evaluation of the Q. Do you remember as you're 4 drilling that was done at Argonaut in the sitting here? A. As I'm sitting here I could 5 1990s, was essentially determined to be 6 of poor quality and not relied on in this not confirm what years this includes. Q. If you'll turn to Page 14 of model, correct? A. So it's relevant to what --⁸ the document. Do you see at the bottom of the Page 3.3 data validation in QA and ⁹ the context is, can you take those drill 10 hole data that were based on the numbers 10 QC? 11 of them, most likely blast hole data that Yes. were used for ore control at the time, Q. It's talking about drilling and are they relevant to put into a new performed at the Argonaut mine in previous years. computer model. That's my interpretation 15 Do you see that? of this document. 16 A. I see where it says over 300 Q. But yet -- and for this model, they rejected that data and did drill hole datasets were found. Q. It goes on to say, "Found not rely on it, the 1990s drill core 18 without complete geology logs, no collar data, correct? 20 data, survey data or inconsistent and A. At least at the time this ²¹ unrealistic data. All of these 300 drill document is drafted. 22 holes were drilled during the 1990s with Q. That's what it states? 23 very poor data collection and retention. A. That's what it's stating at None of these drill holes were used in ²⁴ the time of this draft.

Page 304 Page 302 1 O. You mentioned blast hole ¹ different methodologies for estimating ² the amount of ore in a particular samples? A. Yes, I did. deposit, true? Q. Have you seen any documents A. Yes. or data that document testing of blast O. And it describes data 6 hole samples? collection, geologic interpretation, it A. I would have to look and see goes through some statistics, et cetera, if there were any mentions. correct? Q. I'm talking about specific A. Yes. test results from blast holes. 10 10 Q. And on Page 212 of Noble, 11 it -- right here, I don't know if you can 11 A. Yeah, and I -- and I would see -- describes certain common problems have to look and see if I saw any data. 13 Q. Do you recall as you're ¹³ that are associated with block models sitting here today, that data? such as this, correct? 15 15 A. I don't recall with the A. Some. Q. It says, "The most common ¹⁶ amount of data I've looked at. 16 17 problem with geometric methods is that Q. You talk a lot in your they may imply more selective mining that report about the -- the block models and may be achieved by the mining method." 19 creating block models for deposits that ²⁰ identify particular segments of talc 20 In other words, the model may not match what's going on in the ²¹ versus other material. 22 actual real world mine, true? A. Yes. Q. And let me ask you if you 23 A. So I would actually need to ²⁴ wouldn't mind. We marked the literature see the article and the context of what Page 303 Page 305 ¹ came before this. ¹ and excerpts of books that you relied on. ² If you wouldn't mind, Dr. Poulton, if I Q. It goes on to say, "The ³ results from estimating the resource from ³ could have that, because I don't have a ⁴ samples, the size of the drill hole, ⁴ copy of one of the articles. ⁵ Specifically the Noble article. ⁵ but" -- sorry, let me read that again. Do you recall that? "This results from 6 A. I believe so. estimating the resource from samples the size of a drill hole but mining larger, Q. And in Noble you describe certain theories or methodology regarding less selective volumes." 10 block models, true? 10 Did I read that correctly? 11 11 A. We can look at Noble. A. You read it correctly. Q. "High grade blocks usually O. And the Noble reference that include lower grade material when they we're referring to is a chapter in a are mined and low grade blocks usually ¹⁴ mining engineering book entitled "Mineral ¹⁵ Resource Estimation." include some higher grade material." 16 16 Did I read that correctly? Fair? 17 17 A. I believe so. A. Yes. Q. "The resulting mined grades 18 Q. And because we only have one copy, I'll put it up on the Elmo so we are different from the predicted can look together. distribution for cutoff grades below the 21 average grade of the deposit, the mined So this is the reference grade will be lower and the tonnage will ²² that you relied on, correct? 23 23 be higher." A. Yes. 24 24 And Noble goes through Did I read that correctly?

Page 308 Page 306 1 Yes. ¹ there. You correct. You mine more. You A. "If the cutoff grade is ² correct so your model becomes more and ³ significantly higher than the average more sophisticated over time. ⁴ grade of the deposit however, both the Q. So the answer to my ⁵ mined grade and the tonnage can be lower, question, what's -- what's in the model ⁶ resulting in severe overestimation of and what's happening in the mine may not ⁷ contained metal." match. The answer to my question is yes, 8 Do you see that? that is true? A. Yes, I saw that. A. I think we're talking about 10 O. And -- so in other words. different time scales and different uses 11 the model and what's predicted to be in of the model. the mine and what's predicted to be So keep in mind the model is actually extracted may -- may not act --13 not -- I've -- I've built this rigid 14 MS. O'DELL: Excuse me. thing that can never change. It 15 Thank you. You see all my notes. constantly improves as we gather more 16 THE WITNESS: Oh great. information and --17 17 MR. CHACHKES: It's over for O. What's the first mine model 18 that you saw related to any of the you. 19 ¹⁹ Vermont talc mines, what's the date on MS. O'DELL: Well, there you 20 that? 20 go. I made it a long time, so 21 21 hopefully I skip. A. 2002 would come to mind. 22 BY MS. O'DELL: ²² There might have been something sooner

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¹ may not match what actually is removed by ² the people on the ground in the equipment ³ removing the material, true? A. So we have to be careful, ⁵ because the section that you just quoted ⁶ in that article was potentially leading ⁷ up to more sophisticated methods that 8 lead to a more accurate mine model.

Q. But the model and what's

²⁴ predicted to be mined from the deposit

23

24

So I think that we can't ¹⁰ just take one paragraph out of context ¹¹ and then draw the conclusion that the ¹² model is inaccurate.

13 Q. Well, let me -- let me just ¹⁴ ask in a general way. You can have a model of what's in the deposit, the ore ¹⁶ that -- that is designated to be removed. ¹⁷ And the truth of the matter is, that 18 model may or may not match what's 19 actually going on in the mine itself, ²⁰ true?

21 That's why you constantly ²² reconcile the two, so it's a -- it's a ²³ learning process.

You start. You see what's

¹ mines in the 1970s, 1980s, or up until,

than that. But I believe I saw 2002.

O. No mine models for those

² let's say, 1999. True?

A. No, I wouldn't say that ⁴ there's no models. It depends on whether ⁵ we are talking about paper based, even

physical 3D models versus computer

models.

Q. No, there were no computer models in the '90s for Argonaut, true?

10 A. I don't know that that's ¹¹ true.

Q. The -- in terms of -- of the ¹³ mining process itself, and I'm not ¹⁴ talking about a computer model, I'm talking about what happens within the --¹⁶ the open pit itself. The selective mining process is dependent on, in large measure, on the visual inspection of an equipment operator, true?

20 A. I would say that there are 21 many inputs to selecting what you're mining for delivery to a particular 23 stockpile for a particular use or -- or ²⁴ wasting it.

Page D. 196	58m, Ph.D. 723724
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Q. And that decision on an	¹ engineer or a mine manag
² hourly by hourly basis is made by the	² bucket-by-bucket decision
³ person who is running the excavator	³ to be the excavator operat
⁴ that's removing the material, true?	⁴ A. So your question
	1 -

- A. Not necessarily. You have ⁶ other input to what that operator is doing.
 - But it can be, correct?
- That would be a A. 10 hypothetical.

8

11 Q. No, that's real world, in 12 fact.

13 For an excavator operator ¹⁴ who is loading trucks and making a ¹⁵ decision of whether material is going to ¹⁶ go to West Windsor for cosmetic talc ¹⁷ versus Ludlow for industrial tale, that's 18 going to be made when that operator is ¹⁹ extracting the material with an excavator and placing it in a truck, true?

A. So the equipment operator is ²² excavating the material and placing it in a truck.

That material may have been

ger, but for that on, that's going tor, true? n is, is the excavator operator the sole person making that decisions?

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- Q. That's not what I said.
- A. Okay. Because you --
- Q. He's going to be one of the people who is making the decision about whether material is going to be
- beneficiated or wasted?
- A. So there's a distinction between making the decision as opposed to executing the decision.
- Q. In terms of -- of actually loading a particular truck that's going to go to a particular mill --
 - A. Yes.
- 20 Q. -- that's going to be the excavator operator, correct?
- 22 A. No, not necessarily. So, so, basically, based on what you know you're mining and where it's going to go,

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¹ already marked by the geologist, the ² mining engineer, as to what material that

³ is and where that truck is routed to.

- Q. May or may not have been premarked, correct?
- A. So premarked as opposed to other ways of delineating it.
- Q. And in terms of -- of that process, the determination of what's going to be in a talc mine, cosmetic talc ¹¹ versus industrial tale, is going to be
- decided at the site of extraction? 13 A. I would say not solely.
 - Q. But in large measure?
- 15 A. I can't define what in large measure would be.
- 17 Q. It -- that's part of the decisionmaking process, true? 18

19

20

- It's one of the inputs.
- The excavator operator is going to be determining what material is going to be beneficiated versus what's
- going to be wasted. You might have
- ²⁴ gotten input from -- of a geology

¹ the -- the truck driver who is ultimately

- ² taking that material to its destination
- ³ is told where that truck should go. That
- ⁴ could be based on a dispatching system. ⁵ It could be based on today everything is
- going to Stockpile 54. But there's a
- ⁷ difference between making a decision
- ⁸ versus executing the decision.
- Q. Well, that may be true. I 10 wouldn't -- won't dispute that. But ¹¹ executing the -- the decision is sort of where the proof is in the pudding,

correct? I mean, in terms of that excavator operator delineating the ore 16 that should go for cosmetic talc, that person is going to be looking at

- potentially boundaries that are drawn by 19
- a geologist, correct? 20
 - A. Yes.

21

23

24

- Q. Or a mine manager, not necessarily a geologist?
 - Yes. Yes. A.
 - Those boundaries, as

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5

14

- ¹ material is removed, can be disrupted, so
- ² it's more difficult to tell where those
- ³ boundaries occur, true?
 - A. Mm-hmm, could be.
 - Q. And you got, in a pit
- ⁶ situation you're going to have dust,
- ⁷ true, that may impinge on the
- identification of a particular material?
- A. I would not think that dust ¹⁰ in this situation is going to obstruct your visibility.
- Q. You've got snow in certain parts of -- certain time periods of the year, correct?
 - A. You do have snow.

15

- 16 O. You could have rain and other weather elements that impact the person who is trying to remove certain 19 ore?
- 20 A. Usually wet makes things easier to identify.
- Q. Maybe, maybe not. Depends 22 on the mud, true?
 - A. I wouldn't say the mud,

¹ approximately how far from the end of the

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- bucket on the excavator?
- A. It very much depends on the excavator.
 - Q. And -- and you have
- described an excavator that is
- appropriate for selective mining in the
- context of -- of Vermont talc as having a
- 4.7-yard bucket, correct?
- A. That's the bucket that they have described having.
- Q. And that's the bucket they were using?
 - A. Yes.
- O. And the location of the operator in front of the controls in the seat of the machine to the end of the bucket would be anywhere from 25 to 35 feet, correct?
- 20 A. It very much depends on where the machine is relative to the excavator arm. It could be closer.
- 23 O. And it -- it could be ²⁴ farther?

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- ¹ but -- but certainly if you take a rock
- ² sample and you make it wet, a lot of
- ³ times the identification is much easier.
- Q. But we're not talking about rock samples. We're talking about
- somebody in a piece of equipment. A. No, I'm -- I'm still saying
- 8 the rock face when wet can be far more
- distinctive than when dry.
- Q. But not the floor of the pit in -- not the floor of the pit in many
- instances ---13 A. Well, the floor of the pit
- ¹⁴ we're generally driving on. 15
- Q. Not necessarily. It depends on if you've got -- you've blasted and you've got material that's been blasted and it's being prepared to be excavated and -- and trucked to the mill.
- A. So you're talking about a muck pile on a bench?
- 22 Q. Maybe, maybe not. Could be. But let me just ask this
- ²⁴ question. An excavator operator is

A. Depends on the reach of the

- boom.
 - Q. Yes.
- A. You generally don't want to
- ⁵ lift a lot of things from a great
- distance because of the stress on the
- boom.
- Correct. But the -- a good
- estimate of the distance would be
- somewhere between 25 and 35 feet,
- 11 correct?
 - A. I don't know that I could
- say that that's an estimate of the
- distance between the operator and what
- that person is digging.
- Q. How many pounds of material 16 would a 4.7-cubic-yard bucket hold?
- A. So we would have to do some math late in the day here. I believe a
- ten-foot by ten-foot block of
- rock was roughly 75 tons. I'd have to go
- ²² through and calculate bank cubic yards
- ²³ and figure out what would actually fit in
- ²⁴ an excavator of that size and then figure

Page 318 Page 320 ¹ out what that weight would be. I don't ¹ BY MS. O'DELL: ² think I'm prepared to do that math right Q. Let me ask you this. That ³ 15,000 pounds of -- a bucket that can ³ now. ⁴ hold 15,000 pounds is hardly a precise Q. And you don't know that from ⁵ instrument from which to identify certain your information in -- in the mining field? ⁶ ore and remove only that ore for purposes 7 of cosmetic talc, true? MR. CHACHKES: Objection. 8 MR. CHACHKES: Objection. THE WITNESS: I don't know 9 that from my information in the 9 THE WITNESS: That would 10 mining field? No, I just can't 10 assume that you're always 11 11 calculate it right now. completely filling the entire 12 12 bucket, which you may not do. BY MS. O'DELL: 13 13 BY MS. O'DELL: Q. Would it be fair to say that ¹⁴ 3,000 pounds per yard is a reasonable 14 Q. Let's say it's half, estimate of the amount of material 7500 pounds, that's not a terribly precise process by which to selectively 16 that -- that would be in one yard of a 17 ¹⁷ bucket? mine material, true? 18 A. 3,000 pounds per yard of 18 MR. CHACHKES: Objection. 19 talc? 19 MR. LOCKE: Objection. 20 20 THE WITNESS: You could fill Q. Yes. 21 A. I'd have to do some it with even less than that. 22 22 BY MS. O'DELL: calculations. 23 23 Q. So assume for me, for Q. For purposes of selective mining, impurities within talc ore may ²⁴ purposes of this discussion, that a yard Page 319 Page 321 ¹ would hold approximately 3,000 pounds and ¹ not be apparent to the operator who is ² a 4.7 -- 4.7-cubic-yard bucket would hold removing the material, true? ³ approximately 15,000 pounds of ore, MR. FROST: Objection. ⁴ assume that with me. 4 THE WITNESS: When you say 5 If there are trace minerals may not be apparent to the ⁶ or accessory -- accessory minerals within 6 operator? ⁷ that tale, it would be impossible to BY MS. O'DELL: selectively mine that material with any 8 Q. Through visual inspection --9 A. And this -precision, true? 10 MR. CHACHKES: Objection. 10 Q. -- of the material from the 11 MR. LOCKE: Objection to seat of their particular machine. 12 12 MR. FROST: Objection. form. 13 13 THE WITNESS: So these THE WITNESS: And this would 14 impurities don't jump out of the 14 assume that the operator is rock face into the muck pile. 15 15 incapable of asking for help in 16 16 Again, we've built these identifying what's in the 17 17 models so that we're, for cosmetic material? grade talc, mining the very best 18 18 BY MS. O'DELL: 19 blocks. And I -- I object to the 19 Q. That's assuming that he or 20 conclusion that there would she is not able to identify microscopic 21 amounts of impurities within talc rocks. suddenly be unknown contaminants 22 22 MR. FROST: Objection. appearing in the muck pile. 23 MS. O'DELL: Move to strike 23 THE WITNESS: So by the 24 24 as nonresponsive. definition of microscopic

Page 322 Page 324 1 impurities, you're basically back on the record. The time is saying nobody can identify this. 6:37 p.m. ³ BY MS. O'DELL: BY MS. O'DELL: Q. If there is tremolite within Q. Dr. Poulton, following up on ⁵ a talc rock and -- and it's within that the, sort of our discussion that we were 6 rock, and it's 25 to 35 feet away from a having before the break about selective ⁷ machine operator, more likely than not, mining. 8 that is not going to be visible with the Would you agree with me that naked eye, true? excavator operators have an influence 10 MR. CHACHKES: Objection. over the material that is extracted and 11 THE WITNESS: So I -- I am mined as ore versus waste? A. When you say influence, what 12 struggling with sort of the -- the 13 logic of a single tremolite ¹³ do you mean? 14 crystal in a pile of rock. Q. They have an impact on the decision of what is determined to be ore BY MS. O'DELL: 16 versus waste. Q. I didn't say either of those 17 ¹⁷ things. I said within a rock that A. I would say that based on the mine model, the geologic input, the microscopic amounts of tremolite are not ore versus waste has multiple inputs. I going to be visual -- visible to the naked eye. would not say that the excavator operator 20 has necessarily a major influence. 21 True? 22 A. They may not be visible to But again the excavator ²³ the naked eye, but surely they would have operator is probably the person that looks most at the rocks. So again, they been detected in the analysis of the rock Page 323 Page 325 ¹ execute decisions. How much latitude ¹ in that vicinity. 2 they have to make decisions, I think we Q. Right. Within -- within the 3 would have to know from mine managers ³ context of core holes driven -- drilled 4 there. ⁴ anywhere from 100 to 500 feet apart, ⁵ fair? Q. And they would have an A. Well, the geologists are influence on those decisions, true? also capable of taking samples from the A. Influence versus input ⁸ bench face. So it's not solely drill ⁸ versus executing a decision, I don't think that's something that I can say 9 core. 10 Q. Did you see data for samples ¹⁰ from not knowing how they did their taken from the bench face? day-to-day operations. 12 Q. And so you cannot agree to A. I saw reference to taking the word influence? grab samples from the bench face. A. I would not agree to the 14 Q. Did you see data? 15 A. I don't know that I saw 15 word influence. Q. You cannot agree to the assay data. 16 17 MS. O'DELL: Let's take a statement that excavator operators have 18 influence on the degree of ore loss or short break. 19 THE VIDEOGRAPHER: All 19 dilution? 20 20 right. Stand by, please. Remove A. Influence over ore loss or 21 your microphones. The time is ²¹ dilution. To the extent that the 22 6:04 p.m. Off the record. ²² excavator operator is putting material in (Short break.) 23 ²³ trucks to go certain places. Again, I 24 24 think I need to see some context for all THE VIDEOGRAPHER: We are

	MPäğeib. 196	5847, Ph.D.
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1	of this just to know what I'm answering.	identification as Exhibit
2	Q. Let me ask you to look at	Poulton-30.)
3	what I'm going to mark as Exhibit 29.	³ MS. O'DELL: I'm one short
4	This is a July 31, 2006 memo from Ed	on this. I'm sorry.
5	McCarthy regarding Vermont market.	5 MR. CHACHKES: That's fine.
6	Do you see that?	6 Two is fine.
7	A. Yes.	⁷ BY MS. O'DELL:
8	(Document marked for	⁸ Q. Do you see this,
9	identification as Exhibit	⁹ Dr. Poulton?
10	Poulton-29.)	A. I see this image.
11	BY MS. O'DELL:	Q. Can you identify the the
12	Q. If you'll turn, please, to	minerals in this image?
13	Page 3 of this document. You see a	MR. FROST: Objection.
14	caption reading "Present Situation."	THE WITNESS: With no
15	Do you see that?	context, no.
16	A. I do.	16 BY MS. O'DELL:
17	Q. And if you'll look at the	Q. You cannot?
18	second sentence, it reads, "It's very	A. I I don't have any
19	critical that care be exercised near the	¹⁹ information on size. I don't have any
20	limits of the talc zones as serpentine	information on hardness, specific
21	and arsenic are commonly found there. In	gravity. I can't rotate it. I can't use
22	theory that ore is segregated by talc	a hand lens to look at it in detail.
23	content, color, and arsenic content at	⁽²³⁾ I'm I'm basically just looking at a
24	the mine face, but in actuality, mine ore	color image.
	Page 327	Page 329
1	_	1 age 329
	a control ac mildana contomiz con diac com concilizz	1 O If I represent to you that
	control is rudimentary and is generally	Q. If I represent to you that
2	based on post-mill rather than drill hole	² this is a photo of actinolite within
3	based on post-mill rather than drill hole analysis."	 this is a photo of actinolite within talc, would you disagree with that?
3 4	based on post-mill rather than drill hole analysis." Did I read that correctly?	 this is a photo of actinolite within talc, would you disagree with that? A. I don't have any information
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	Page15.190	985	p, Ph.D.
	Page 330		Page 332
	basis for disagreeing with that	I _	identification.
2	identification?	2	Q. And you would need to touch
3	MR. FROST: Objection.	3	
4	THE WITNESS: I don't know	4	MR. LOCKE: Objection.
5	what this figure is from. I don't	5 6	THE WITNESS: I I would
6	know who has identified it. So	7	need to be to make measurements on
8	again, I it's not something I	8	it.
9	can touch and see. BY MS. O'DELL:	9	BY MS. O'DELL:
10		10	Q. Let me ask you to turn to
11	Q. Have you any basis to disagree with that caption?		Page 25 your report. And you have it in front of you?
12	A. Again, I don't know where	12	A. Yes.
13		13	Q. And are you looking at
14	Q. The well, you do have		the you're you're looking at your
15	information on page or on Exhibit 31,	15	copy, not the marked copy of the report,
16	don't you?	16	correct?
17	MR. FROST: Objection.	17	A. It's the copy in this
18	THE WITNESS: Well, I I	18	binder.
19	see a figure caption here. Again,	19	Q. Okay. I'm going to ask you
20	I don't know who has identified	20	to pull out from your stack the copy of
21	it. I don't know where this has		the report that I marked because I want
22	come from. So I	22	you to draw on it. It should be
23	BY MS. O'DELL:	23	MR. CHACHKES: I think
24	Q. You just	24	Number 1 or 2.
	Page 331		Page 333
1	Page 331 A. I don't know how I can	1	Page 333 BY MS. O'DELL:
1 2	_	1 2	BY MS. O'DELL:
	A. I don't know how I can		BY MS. O'DELL:
2	A. I don't know how I can identify something with no information.	2	BY MS. O'DELL: Q. I think it's Number 2. It
2	A. I don't know how I can identify something with no information. Q. But you have information	2	BY MS. O'DELL: Q. I think it's Number 2. It should be on the bottom.
3 4	A. I don't know how I can identify something with no information. Q. But you have information that's provided in caption on the	3 4	BY MS. O'DELL: Q. I think it's Number 2. It should be on the bottom. A. My report?
2 3 4 5	A. I don't know how I can identify something with no information. Q. But you have information that's provided in caption on the caption on Exhibit 31, true?	2 3 4 5	BY MS. O'DELL: Q. I think it's Number 2. It should be on the bottom. A. My report? Q. Correct.
2 3 4 5 6	A. I don't know how I can identify something with no information. Q. But you have information that's provided in caption on the caption on Exhibit 31, true? MR. FROST: Objection. THE WITNESS: Again, I don't know where this caption has come	2 3 4 5	BY MS. O'DELL: Q. I think it's Number 2. It should be on the bottom. A. My report? Q. Correct. A. This one? Q. Yes. All right. If you'll turn to Page 25. Are you are you
2 3 4 5 6 7 8	A. I don't know how I can identify something with no information. Q. But you have information that's provided in caption on the caption on Exhibit 31, true? MR. FROST: Objection. THE WITNESS: Again, I don't know where this caption has come from. I don't know where the	2 3 4 5 6 7 8	BY MS. O'DELL: Q. I think it's Number 2. It should be on the bottom. A. My report? Q. Correct. A. This one? Q. Yes. All right. If you'll turn to Page 25. Are you are you there?
2 3 4 5 6 7 8 9	A. I don't know how I can identify something with no information. Q. But you have information that's provided in caption on the caption on Exhibit 31, true? MR. FROST: Objection. THE WITNESS: Again, I don't know where this caption has come from. I don't know where the picture has come from. I don't	2 3 4 5 6 7 8 9	BY MS. O'DELL: Q. I think it's Number 2. It should be on the bottom. A. My report? Q. Correct. A. This one? Q. Yes. All right. If you'll turn to Page 25. Are you are you there? A. I am.
2 3 4 5 6 7 8 9 10	A. I don't know how I can identify something with no information. Q. But you have information that's provided in caption on the caption on Exhibit 31, true? MR. FROST: Objection. THE WITNESS: Again, I don't know where this caption has come from. I don't know where the picture has come from. I don't know what the document is.	2 3 4 5 6 7 8 9 10	BY MS. O'DELL: Q. I think it's Number 2. It should be on the bottom. A. My report? Q. Correct. A. This one? Q. Yes. All right. If you'll turn to Page 25. Are you are you there? A. I am. Q. You write, "Notice the color
2 3 4 5 6 7 8 9 10 11	A. I don't know how I can identify something with no information. Q. But you have information that's provided in caption on the caption on Exhibit 31, true? MR. FROST: Objection. THE WITNESS: Again, I don't know where this caption has come from. I don't know where the picture has come from. I don't know what the document is. BY MS. O'DELL:	2 3 4 5 6 7 8 9 10 11 12	BY MS. O'DELL: Q. I think it's Number 2. It should be on the bottom. A. My report? Q. Correct. A. This one? Q. Yes. All right. If you'll turn to Page 25. Are you are you there? A. I am. Q. You write, "Notice the color change to distinguish the ore from waste
2 3 4 5 6 7 8 9 10 11 12 13	A. I don't know how I can identify something with no information. Q. But you have information that's provided in caption on the caption on Exhibit 31, true? MR. FROST: Objection. THE WITNESS: Again, I don't know where this caption has come from. I don't know where the picture has come from. I don't know what the document is. BY MS. O'DELL: Q. And with the information	2 3 4 5 6 7 8 9 10 11 12 13	BY MS. O'DELL: Q. I think it's Number 2. It should be on the bottom. A. My report? Q. Correct. A. This one? Q. Yes. All right. If you'll turn to Page 25. Are you are you there? A. I am. Q. You write, "Notice the color change to distinguish the ore from waste is easily discernable."
2 3 4 5 6 7 8 9 10 11 12 13 14	A. I don't know how I can identify something with no information. Q. But you have information that's provided in caption on the caption on Exhibit 31, true? MR. FROST: Objection. THE WITNESS: Again, I don't know where this caption has come from. I don't know where the picture has come from. I don't know what the document is. BY MS. O'DELL: Q. And with the information provided on Exhibit 35 31, you are	2 3 4 5 6 7 8 9 10 11 12 13	BY MS. O'DELL: Q. I think it's Number 2. It should be on the bottom. A. My report? Q. Correct. A. This one? Q. Yes. All right. If you'll turn to Page 25. Are you are you there? A. I am. Q. You write, "Notice the color change to distinguish the ore from waste is easily discernable." Do you see that?
2 3 4 5 6 7 8 9 10 11 12 13 14	A. I don't know how I can identify something with no information. Q. But you have information that's provided in caption on the caption on Exhibit 31, true? MR. FROST: Objection. THE WITNESS: Again, I don't know where this caption has come from. I don't know where the picture has come from. I don't know what the document is. BY MS. O'DELL: Q. And with the information provided on Exhibit 35 31, you are unable to identify that what that rock	2 3 4 5 6 7 8 9 10 11 12 13 14	BY MS. O'DELL: Q. I think it's Number 2. It should be on the bottom. A. My report? Q. Correct. A. This one? Q. Yes. All right. If you'll turn to Page 25. Are you are you there? A. I am. Q. You write, "Notice the color change to distinguish the ore from waste is easily discernable." Do you see that? A. And we are on Page 25?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. I don't know how I can identify something with no information. Q. But you have information that's provided in caption on the caption on Exhibit 31, true? MR. FROST: Objection. THE WITNESS: Again, I don't know where this caption has come from. I don't know where the picture has come from. I don't know what the document is. BY MS. O'DELL: Q. And with the information provided on Exhibit 35 31, you are unable to identify that what that rock is or state the reasons why it's not	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	BY MS. O'DELL: Q. I think it's Number 2. It should be on the bottom. A. My report? Q. Correct. A. This one? Q. Yes. All right. If you'll turn to Page 25. Are you are you there? A. I am. Q. You write, "Notice the color change to distinguish the ore from waste is easily discernable." Do you see that? A. And we are on Page 25? Q. Correct.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. I don't know how I can identify something with no information. Q. But you have information that's provided in caption on the caption on Exhibit 31, true? MR. FROST: Objection. THE WITNESS: Again, I don't know where this caption has come from. I don't know where the picture has come from. I don't know what the document is. BY MS. O'DELL: Q. And with the information provided on Exhibit 35 31, you are unable to identify that what that rock is or state the reasons why it's not actinolite in talc?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	BY MS. O'DELL: Q. I think it's Number 2. It should be on the bottom. A. My report? Q. Correct. A. This one? Q. Yes. All right. If you'll turn to Page 25. Are you are you there? A. I am. Q. You write, "Notice the color change to distinguish the ore from waste is easily discernable." Do you see that? A. And we are on Page 25? Q. Correct. A. I say, "Close-up of the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. I don't know how I can identify something with no information. Q. But you have information that's provided in caption on the caption on Exhibit 31, true? MR. FROST: Objection. THE WITNESS: Again, I don't know where this caption has come from. I don't know where the picture has come from. I don't know what the document is. BY MS. O'DELL: Q. And with the information provided on Exhibit 35 31, you are unable to identify that what that rock is or state the reasons why it's not actinolite in talc? MR. CHACHKES: Objection.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MS. O'DELL: Q. I think it's Number 2. It should be on the bottom. A. My report? Q. Correct. A. This one? Q. Yes. All right. If you'll turn to Page 25. Are you are you there? A. I am. Q. You write, "Notice the color change to distinguish the ore from waste is easily discernable." Do you see that? A. And we are on Page 25? Q. Correct. A. I say, "Close-up of the lamprophyre dikes. Notice the boundaries
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. I don't know how I can identify something with no information. Q. But you have information that's provided in caption on the caption on Exhibit 31, true? MR. FROST: Objection. THE WITNESS: Again, I don't know where this caption has come from. I don't know where the picture has come from. I don't know what the document is. BY MS. O'DELL: Q. And with the information provided on Exhibit 35 31, you are unable to identify that what that rock is or state the reasons why it's not actinolite in talc? MR. CHACHKES: Objection. MR. FROST: Objection.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	BY MS. O'DELL: Q. I think it's Number 2. It should be on the bottom. A. My report? Q. Correct. A. This one? Q. Yes. All right. If you'll turn to Page 25. Are you are you there? A. I am. Q. You write, "Notice the color change to distinguish the ore from waste is easily discernable." Do you see that? A. And we are on Page 25? Q. Correct. A. I say, "Close-up of the lamprophyre dikes. Notice the boundaries are sharp and it is easy to segregate
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. I don't know how I can identify something with no information. Q. But you have information that's provided in caption on the caption on Exhibit 31, true? MR. FROST: Objection. THE WITNESS: Again, I don't know where this caption has come from. I don't know where the picture has come from. I don't know what the document is. BY MS. O'DELL: Q. And with the information provided on Exhibit 35 31, you are unable to identify that what that rock is or state the reasons why it's not actinolite in talc? MR. CHACHKES: Objection. MR. FROST: Objection. BY MS. O'DELL:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MS. O'DELL: Q. I think it's Number 2. It should be on the bottom. A. My report? Q. Correct. A. This one? Q. Yes. All right. If you'll turn to Page 25. Are you are you there? A. I am. Q. You write, "Notice the color change to distinguish the ore from waste is easily discernable." Do you see that? A. And we are on Page 25? Q. Correct. A. I say, "Close-up of the lamprophyre dikes. Notice the boundaries are sharp and it is easy to segregate this material during selective mining."
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. I don't know how I can identify something with no information. Q. But you have information that's provided in caption on the caption on Exhibit 31, true? MR. FROST: Objection. THE WITNESS: Again, I don't know where this caption has come from. I don't know where the picture has come from. I don't know what the document is. BY MS. O'DELL: Q. And with the information provided on Exhibit 35 31, you are unable to identify that what that rock is or state the reasons why it's not actinolite in talc? MR. CHACHKES: Objection. MR. FROST: Objection. BY MS. O'DELL: Q. True?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	BY MS. O'DELL: Q. I think it's Number 2. It should be on the bottom. A. My report? Q. Correct. A. This one? Q. Yes. All right. If you'll turn to Page 25. Are you are you there? A. I am. Q. You write, "Notice the color change to distinguish the ore from waste is easily discernable." Do you see that? A. And we are on Page 25? Q. Correct. A. I say, "Close-up of the lamprophyre dikes. Notice the boundaries are sharp and it is easy to segregate this material during selective mining." Q. I think if you'll look on
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. I don't know how I can identify something with no information. Q. But you have information that's provided in caption on the caption on Exhibit 31, true? MR. FROST: Objection. THE WITNESS: Again, I don't know where this caption has come from. I don't know where the picture has come from. I don't know what the document is. BY MS. O'DELL: Q. And with the information provided on Exhibit 35 31, you are unable to identify that what that rock is or state the reasons why it's not actinolite in talc? MR. CHACHKES: Objection. MR. FROST: Objection. BY MS. O'DELL: Q. True? A. I've already stated that I	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MS. O'DELL: Q. I think it's Number 2. It should be on the bottom. A. My report? Q. Correct. A. This one? Q. Yes. All right. If you'll turn to Page 25. Are you are you there? A. I am. Q. You write, "Notice the color change to distinguish the ore from waste is easily discernable." Do you see that? A. And we are on Page 25? Q. Correct. A. I say, "Close-up of the lamprophyre dikes. Notice the boundaries are sharp and it is easy to segregate this material during selective mining." Q. I think if you'll look on Figure 6 that you write, "Notice the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. I don't know how I can identify something with no information. Q. But you have information that's provided in caption on the caption on Exhibit 31, true? MR. FROST: Objection. THE WITNESS: Again, I don't know where this caption has come from. I don't know where the picture has come from. I don't know what the document is. BY MS. O'DELL: Q. And with the information provided on Exhibit 35 31, you are unable to identify that what that rock is or state the reasons why it's not actinolite in talc? MR. CHACHKES: Objection. MR. FROST: Objection. BY MS. O'DELL: Q. True?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	BY MS. O'DELL: Q. I think it's Number 2. It should be on the bottom. A. My report? Q. Correct. A. This one? Q. Yes. All right. If you'll turn to Page 25. Are you are you there? A. I am. Q. You write, "Notice the color change to distinguish the ore from waste is easily discernable." Do you see that? A. And we are on Page 25? Q. Correct. A. I say, "Close-up of the lamprophyre dikes. Notice the boundaries are sharp and it is easy to segregate this material during selective mining." Q. I think if you'll look on

Page 336 Page 334 1 Do you see that? MR. CHACHKES: Objection. 2 2 A. Yes. THE WITNESS: At this moment 3 Q. Where is -- I'd like for you in time. ⁴ to identify the area of ore in this ⁴ BY MS. O'DELL: photo. Q. If you'll look in your stack, please, Dr. Poulton, for A. So I'm denoting that there Exhibit 28, which is the 2008 annual ⁷ is a color change, and based on the ⁸ document that I -- I took this from, have report for mineral resources and ore denoted that -- that the light material reserves. Do you have that in front of ¹⁰ is different than the dark material. vou? 11 11 Q. I would like for you to 28? A. 12 12 draw. If you don't -- you're welcome to Yes. Q. ¹³ use my pen or somebody else's pen, what 13 Yes. A. 14 you identify as ore versus waste. Q. Great. If you'll turn to Page 16 of the document. Are you there? A. Well, I can -- I can mark A. I am on Page 16. ¹⁶ where we have the fault in that material 17 as waste. Q. Okay. Top of the page, To -- to go beyond that with 18 Doctor, it reads, "Only limited blast hole data was utilized in the ¹⁹ a photograph, I think is -- is difficult construction of the geologic polygons to do without more context. ²¹ primarily due to the lack of quality Q. Can you identify the ore in that photograph, yes or no? control on the blast hole database." 23 A. I would say that it would be Do you see that? 24 difficult again without having more A. I see that paragraph. Page 335 Page 337 1 information. Q. It says, "The blast hole ² data could not be confirmed reliable, Q. So you cannot, as you're ³ sitting here today, identify the ore 3 therefore, was used sparing" --4 that's present in that photograph, true? 4 "sparingly." 5 MR. CHACHKES: Objection. Do you see that? 6 THE WITNESS: I would say 6 A. I see that sentence. Q. And to the degree that blast 7 again, I would want to have more 8 information before I marked on it. 8 hole data is something that is typically 9 BY MS. O'DELL: ⁹ relied on, Imerys determined that the data they had was not reliable for 10 Q. So based on the information you have today, and based on the purposes of the computer model that was being created for Argonaut, fair? materials you reviewed, you're unable to identify the ore that's depicted in that 13 A. Possibly. photograph, true? 14 Q. It's what the document says? 15 MR. CHACHKES: Objection. Well, again the -- the blast 16 THE WITNESS: I wouldn't say 16 hole data can be used to inform the 17 that I'm unable. I would say that mining that you're doing and that 18 I would want to make sure that I information can also go into the geologic 19 did it carefully with more and computer model. So it's not just 20 drill hole data that informs these information. BY MS. O'DELL: computer models. There's other geologic Q. And you're not able to do ²² information that informs these models. that as we sit here in the deposition Q. So blast hole data, however, ²⁴ was determined to be unreliable by the today, correct?

	Me age in the little of the li	0901	
	Page 33	8	Page 340
¹ individu	uals who wrote this annual report,	¹ It's on	e of your references.
² correct?	·	2	So Page 5 of your report.
3	MR. CHACHKES: Objection.	3 Let's s	see. Noakes 2005.
4	THE WITNESS: So again we	4	Do you see that?
5 hav	re to look at the context of	5 A	Yes.
6 who	ere this paragraph comes from	6 Q	And you give an example
⁷ and	I what they are attempting to do	7 regard	ding the Three Springs talc mine in
8 wit	h that particular blast hole	8 Austra	alia?
9 data	a.	9 A	Yes.
10 BY MS	. O'DELL:	10	Three Springs is not a
11 Q.	Certainly what they	11 cosme	etic talc mine, true?
12 certainly	y what they stated, correct?	12 A	That's my understanding.
13 A.	Not necessarily. Again, we	13 Q	It's a mine for industrial
14 have to	look at the full context of	talc, c	orrect?
15 what's b	being stated, not just a paragraph	15 A	That's my understanding.
16 without	any context.	(16) Q	You cite Birkhimer on
17 Q.	That's what that paragraph	Page ?	30 of your report, and you cite
18 stated, o	correct?	18 Birkh	imer in the last paragraph, and you
¹⁹ A.	Again, I would say context	are tal	king about hydraulic excavators.
²⁰ is very	important to understand what's	20	And you say, "Birkhimer
²¹ being sa	aid.	21 notes	that hydraulic excavators can
²² Q.	Yes or no?		ively mine layers or pockets of
²³ A.	I don't think I can say yes	23 mater	i <mark>al."</mark>
24 or no to	a question that requires	24	Do you see that?
	Page 33	9	Page 341
¹ context.			
	•	1 A	Yes.
2 Q.	And I don't think this	1 A	
2 Q.		2 0	Birkhimer, first, is there,
² Q. ³ requires	And I don't think this	2 Q 3 you k	
² Q. ³ requires	And I don't think this context. That's what that	2 Q 3 you k 4 the eq	Birkhimer, first, is there, now, any designation to the size of
² Q. ³ requires ⁴ paragra	And I don't think this s context. That's what that ph stated, correct?	2 Q 3 you k 4 the eq	Birkhimer, first, is there, now, any designation to the size of uipment in relation to what was
Q. 3 requires 4 paragra 5	And I don't think this s context. That's what that ph stated, correct? MR. FROST: Objection.	you k you k the eq used a	D. Birkhimer, first, is there, now, any designation to the size of uipment in relation to what was at the Argonaut mine? Let me strike that. Start
Q. 3 requires 4 paragray 5 6 7 say	And I don't think this context. That's what that ph stated, correct? MR. FROST: Objection. THE WITNESS: No. I would	2 Q 3 you k 4 the eq 5 used a	D. Birkhimer, first, is there, now, any designation to the size of uipment in relation to what was at the Argonaut mine? Let me strike that. Start
Q. 3 requires 4 paragray 5 6 7 say 8 nee	And I don't think this scontext. That's what that ph stated, correct? MR. FROST: Objection. THE WITNESS: No. I would based on my background, you do	2 Q 3 you k 4 the eq 5 used a 6 7 again. 8	D. Birkhimer, first, is there, now, any designation to the size of unipment in relation to what was at the Argonaut mine? Let me strike that. Start
Q. 3 requires 4 paragray 5 6 7 say 8 nee	And I don't think this scontext. That's what that ph stated, correct? MR. FROST: Objection. THE WITNESS: No. I would based on my background, you do ad context.	2 Q 3 you k 4 the eq 5 used a 6 7 again. 8	D. Birkhimer, first, is there, now, any designation to the size of uipment in relation to what was at the Argonaut mine? Let me strike that. Start Is there any designation of
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Q. 3 requires 4 paragray 5 6 7 say 8 nee 9 BY MS 10 Q. 11 your ba	And I don't think this scontext. That's what that ph stated, correct? MR. FROST: Objection. THE WITNESS: No. I would based on my background, you do ed context. O'DELL: I'm not asking you about ckground to be, you know, ful, Doctor.	2 Q 3 you k 4 the eq 5 used a 6 7 again. 8 9 the siz 10 referre 11 the eq 12 A	D. Birkhimer, first, is there, now, any designation to the size of quipment in relation to what was at the Argonaut mine? Let me strike that. Start Is there any designation of the end of equipment that is being the end to in Birkhimer as compared to the puipment that was used at Argonaut? Could I look at Birkhimer
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	MPägelb. 196	988	i, Ph.D.
	Page 342		Page 344
1	Birkhimer article?	1	excavators are depicted in some of the
2	A. I was focused on hydraulic	2	photos in your report, hydraulic
3	excavators as opposed to other kinds of	3	excavators?
4	equipment.	4	A. Yes.
5	Q. And and this is the page	5	Q. You were I asked you
6	that you relied on, fair?	6	earlier about we had a discussion
7		7	earlier about some depositions that are
8	Q. Is does this refer in any	1	on your reliance list.
9	way to talc mining?	9	You also list in addition to
10	A. It does not refer to any	10	Dr. Hopkins' deposition, Alice Blount's
11	particular kind of mining if memory	1	deposition?
12		12	A. Yes.
13	Q. Is there any designation of	13	Q. Did were you provided the
14	the size of the equipment that's being	14	entire deposition of Dr. Blount?
15	used and the precision of its ability to	15	A. I believe I have the entire
16		16	deposition.
17	A. In this table it's just	17	Q. Did you read that
18	comparing three different kinds of	18	deposition?
19	loading tools.	19	A. I skimmed it.
20	Q. Do you have any information	20	Q. Did you rely on it in
21	that would allow you to apply the data	21	reaching your opinions in this case?
22		22	A. No.
23	that was used at Argonaut?	23	Q. Were you provided the
24	A. The fact that it's a	24	deposition of Pat Downey?
	Page 343		Page 345
1	hydraulic excavator and not an electric	1	A. Yes.
	cable shovel would be an example.	2	Q. How much of that deposition
3			Q. How much of that deposition
	2. The that's the only thing,	3	were you provided?
	in terms of size of bucket size of	3	were you provided? A I believe I have the entire
	in terms of size of bucket, size of machinery, you don't have any of that	4	A. I believe I have the entire
5	machinery, you don't have any of that	4	A. I believe I have the entire deposition.
5	machinery, you don't have any of that data?	5 6	A. I believe I have the entire deposition. Q. Were you provided the
56	machinery, you don't have any of that data? A. It is the type of equipment	5 6	A. I believe I have the entire deposition. Q. Were you provided the deposition of of Donald Hicks?
6	machinery, you don't have any of that data? A. It is the type of equipment that Birkhimer is referring to.	4 5 6 7	A. I believe I have the entire deposition. Q. Were you provided the deposition of of Donald Hicks? A. I believe I have one page.
5 6 7 8	machinery, you don't have any of that data? A. It is the type of equipment that Birkhimer is referring to. Q. And when you say, talking	4 5 6 7 8 9	A. I believe I have the entire deposition. Q. Were you provided the deposition of of Donald Hicks? A. I believe I have one page. Q. And were you provided the
5 6 7 8 9	machinery, you don't have any of that data? A. It is the type of equipment that Birkhimer is referring to. Q. And when you say, talking about hydraulic excavators, you are	4 5 6 7 8 9	A. I believe I have the entire deposition. Q. Were you provided the deposition of of Donald Hicks? A. I believe I have one page. Q. And were you provided the depositions of Dr. Krekeler and Dr. Cook?
5 6 7 8 9	machinery, you don't have any of that data? A. It is the type of equipment that Birkhimer is referring to. Q. And when you say, talking about hydraulic excavators, you are talking about excavators that are	4 5 6 7 8 9	A. I believe I have the entire deposition. Q. Were you provided the deposition of of Donald Hicks? A. I believe I have one page. Q. And were you provided the depositions of Dr. Krekeler and Dr. Cook? A. Yes.
5 6 7 8 9 10	machinery, you don't have any of that data? A. It is the type of equipment that Birkhimer is referring to. Q. And when you say, talking about hydraulic excavators, you are talking about excavators that are typically used in an open pit situation	4 5 6 7 8 9 10 11	A. I believe I have the entire deposition. Q. Were you provided the deposition of of Donald Hicks? A. I believe I have one page. Q. And were you provided the depositions of Dr. Krekeler and Dr. Cook? A. Yes. Q. Were you provided those
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	Page 346		Page 348
1	A. Perhaps.	1	A. We we took 35-millimeter
2	Q. If you'll recall, and I'll	2	photographs and used slide carousels.
3	just put it under we marked as an	3	Q. Do you have any any
	exhibit, this was entitled "Talc mining	4	information as you are sitting here today
5		5	
6	in Vermont: The application of	6	that that was a peer-reviewed
7	continuous machines." Roger Miller?	7	publication?
	A. Yes.		A. I don't for that particular
8	Q. It is a presentation at a	8	time with SME.
9	fall meeting in October of 1984, correct?	9	MS. O'DELL: Let's go off
10	A. So it was presented at the	10	the record.
11	fall meeting. I believe there's he	11	THE VIDEOGRAPHER: Sure.
12	submitted a preprint for this meeting.	12	The time is 7:03 p.m. Off the
13	Q. And this is not a	13	record.
14	peer-reviewed publication, correct?	14	(Short break.)
15	A. I believe SME preprints	15	THE VIDEOGRAPHER: We are
16	quite often are peer reviewed. I would	16	back on the record. The time is
	have to confirm that for that particular	17	7:23 p.m.
	time period.	18	BY MS. O'DELL:
19	Q. Do you don't have as	19	Q. For the record, I've marked
	•		-
	you're sitting here today, you don't know	20	as Exhibit 32 a group of binders, I think
	if a presentation in 1984 was peer		it's six five binders brought to the
	reviewed, correct?		deposition which I understand are
23	A. Well, it's written as a		Dr. Poulton's reliance materials in terms
24	paper. The presentation would be slides.	24	of the Bates documents that she was
	Page 347		Page 349
1	Page 347	1	Page 349
	So he's he's written the paper, he	1	provided. That's Exhibit 32.
2	So he's he's written the paper, he gives a presentation based on the paper.	2	provided. That's Exhibit 32. (Document marked for
3	So he's he's written the paper, he gives a presentation based on the paper. So I wouldn't characterize his paper as a	3	provided. That's Exhibit 32. (Document marked for identification as Exhibit
3 4	So he's he's written the paper, he gives a presentation based on the paper. So I wouldn't characterize his paper as a presentation. It was a paper that was	3 4	provided. That's Exhibit 32. (Document marked for identification as Exhibit Poulton-32.)
2 3 4 5	So he's he's written the paper, he gives a presentation based on the paper. So I wouldn't characterize his paper as a presentation. It was a paper that was presented.	2 3 4 5	provided. That's Exhibit 32. (Document marked for identification as Exhibit Poulton-32.) MS. O'DELL: Exhibit 33
3 4	So he's he's written the paper, he gives a presentation based on the paper. So I wouldn't characterize his paper as a presentation. It was a paper that was presented. Q. That's what the document	2 3 4 5 6	provided. That's Exhibit 32. (Document marked for identification as Exhibit Poulton-32.) MS. O'DELL: Exhibit 33 MR. CHACHKES: Exhibit 32,
2 3 4 5	So he's he's written the paper, he gives a presentation based on the paper. So I wouldn't characterize his paper as a presentation. It was a paper that was presented.	2 3 4 5	provided. That's Exhibit 32. (Document marked for identification as Exhibit Poulton-32.) MS. O'DELL: Exhibit 33
2 3 4 5 6	So he's he's written the paper, he gives a presentation based on the paper. So I wouldn't characterize his paper as a presentation. It was a paper that was presented. Q. That's what the document	2 3 4 5 6	provided. That's Exhibit 32. (Document marked for identification as Exhibit Poulton-32.) MS. O'DELL: Exhibit 33 MR. CHACHKES: Exhibit 32,
2 3 4 5 6 7	So he's he's written the paper, he gives a presentation based on the paper. So I wouldn't characterize his paper as a presentation. It was a paper that was presented. Q. That's what the document says, it was a presentation, correct?	2 3 4 5 6 7	provided. That's Exhibit 32. (Document marked for identification as Exhibit Poulton-32.) MS. O'DELL: Exhibit 33 MR. CHACHKES: Exhibit 32, I'll have to double-check exactly
2 3 4 5 6 7	So he's he's written the paper, he gives a presentation based on the paper. So I wouldn't characterize his paper as a presentation. It was a paper that was presented. Q. That's what the document says, it was a presentation, correct? A. Well, that means he	2 3 4 5 6 7 8	provided. That's Exhibit 32. (Document marked for identification as Exhibit Poulton-32.) MS. O'DELL: Exhibit 33 MR. CHACHKES: Exhibit 32, I'll have to double-check exactly what they are. So if they were
2 3 4 5 6 7 8	So he's he's written the paper, he gives a presentation based on the paper. So I wouldn't characterize his paper as a presentation. It was a paper that was presented. Q. That's what the document says, it was a presentation, correct? A. Well, that means he presented the content of the paper at the	2 3 4 5 6 7 8	provided. That's Exhibit 32. (Document marked for identification as Exhibit Poulton-32.) MS. O'DELL: Exhibit 33 MR. CHACHKES: Exhibit 32, I'll have to double-check exactly what they are. So if they were sent to me I haven't reviewed
2 3 4 5 6 7 8 9	So he's he's written the paper, he gives a presentation based on the paper. So I wouldn't characterize his paper as a presentation. It was a paper that was presented. Q. That's what the document says, it was a presentation, correct? A. Well, that means he presented the content of the paper at the meeting. Q. And and it's your	2 3 4 5 6 7 8 9	provided. That's Exhibit 32. (Document marked for identification as Exhibit Poulton-32.) MS. O'DELL: Exhibit 33 MR. CHACHKES: Exhibit 32, I'll have to double-check exactly what they are. So if they were sent to me I haven't reviewed them. I think that's what they are, so
2 3 4 5 6 7 8 9 10 11	So he's he's written the paper, he gives a presentation based on the paper. So I wouldn't characterize his paper as a presentation. It was a paper that was presented. Q. That's what the document says, it was a presentation, correct? A. Well, that means he presented the content of the paper at the meeting. Q. And and it's your testimony under oath that he would have	2 3 4 5 6 7 8 9 10	provided. That's Exhibit 32. (Document marked for identification as Exhibit Poulton-32.) MS. O'DELL: Exhibit 33 MR. CHACHKES: Exhibit 32, I'll have to double-check exactly what they are. So if they were sent to me I haven't reviewed them. I think that's what they are, so MS. O'DELL: Well, I'll
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2 3 4 5 6 7 8 9 10 11 12 13	So he's he's written the paper, he gives a presentation based on the paper. So I wouldn't characterize his paper as a presentation. It was a paper that was presented. Q. That's what the document says, it was a presentation, correct? A. Well, that means he presented the content of the paper at the meeting. Q. And and it's your testimony under oath that he would have had slides in 1984 for a presentation to the Society of Mining Engineers in	2 3 4 5 6 7 8 9 10 11 12 13	provided. That's Exhibit 32. (Document marked for identification as Exhibit Poulton-32.) MS. O'DELL: Exhibit 33 MR. CHACHKES: Exhibit 32, I'll have to double-check exactly what they are. So if they were sent to me I haven't reviewed them. I think that's what they are, so MS. O'DELL: Well, I'll identify, just they are Imerys Volumes 1 through 3 and J&J
2 3 4 5 6 7 8 9 10 11 12 13 14	So he's he's written the paper, he gives a presentation based on the paper. So I wouldn't characterize his paper as a presentation. It was a paper that was presented. Q. That's what the document says, it was a presentation, correct? A. Well, that means he presented the content of the paper at the meeting. Q. And and it's your testimony under oath that he would have had slides in 1984 for a presentation to the Society of Mining Engineers in Colorado?	2 3 4 5 6 7 8 9 10 11 12 13 14	provided. That's Exhibit 32. (Document marked for identification as Exhibit Poulton-32.) MS. O'DELL: Exhibit 33 MR. CHACHKES: Exhibit 32, I'll have to double-check exactly what they are. So if they were sent to me I haven't reviewed them. I think that's what they are, so MS. O'DELL: Well, I'll identify, just they are Imerys Volumes 1 through 3 and J&J Reliance Materials 1 and 2.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	So he's he's written the paper, he gives a presentation based on the paper. So I wouldn't characterize his paper as a presentation. It was a paper that was presented. Q. That's what the document says, it was a presentation, correct? A. Well, that means he presented the content of the paper at the meeting. Q. And and it's your testimony under oath that he would have had slides in 1984 for a presentation to the Society of Mining Engineers in Colorado? A. Well, in 1984 I was using	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	provided. That's Exhibit 32. (Document marked for identification as Exhibit Poulton-32.) MS. O'DELL: Exhibit 33 MR. CHACHKES: Exhibit 32, I'll have to double-check exactly what they are. So if they were sent to me I haven't reviewed them. I think that's what they are, so MS. O'DELL: Well, I'll identify, just they are Imerys Volumes 1 through 3 and J&J Reliance Materials 1 and 2. MR. CHACHKES: Right.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	So he's he's written the paper, he gives a presentation based on the paper. So I wouldn't characterize his paper as a presentation. It was a paper that was presented. Q. That's what the document says, it was a presentation, correct? A. Well, that means he presented the content of the paper at the meeting. Q. And and it's your testimony under oath that he would have had slides in 1984 for a presentation to the Society of Mining Engineers in Colorado? A. Well, in 1984 I was using slides to give presentations,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	provided. That's Exhibit 32. (Document marked for identification as Exhibit Poulton-32.) MS. O'DELL: Exhibit 33 MR. CHACHKES: Exhibit 32, I'll have to double-check exactly what they are. So if they were sent to me I haven't reviewed them. I think that's what they are, so MS. O'DELL: Well, I'll identify, just they are Imerys Volumes 1 through 3 and J&J Reliance Materials 1 and 2. MR. CHACHKES: Right. That's what the legal assistant
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	So he's he's written the paper, he gives a presentation based on the paper. So I wouldn't characterize his paper as a presentation. It was a paper that was presented. Q. That's what the document says, it was a presentation, correct? A. Well, that means he presented the content of the paper at the meeting. Q. And and it's your testimony under oath that he would have had slides in 1984 for a presentation to the Society of Mining Engineers in Colorado? A. Well, in 1984 I was using slides to give presentations, 35-millimeter slides.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	provided. That's Exhibit 32. (Document marked for identification as Exhibit Poulton-32.) MS. O'DELL: Exhibit 33 MR. CHACHKES: Exhibit 32, I'll have to double-check exactly what they are. So if they were sent to me I haven't reviewed them. I think that's what they are, so MS. O'DELL: Well, I'll identify, just they are Imerys Volumes 1 through 3 and J&J Reliance Materials 1 and 2. MR. CHACHKES: Right. That's what the legal assistant put on the spine.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	So he's he's written the paper, he gives a presentation based on the paper. So I wouldn't characterize his paper as a presentation. It was a paper that was presented. Q. That's what the document says, it was a presentation, correct? A. Well, that means he presented the content of the paper at the meeting. Q. And and it's your testimony under oath that he would have had slides in 1984 for a presentation to the Society of Mining Engineers in Colorado? A. Well, in 1984 I was using slides to give presentations, 35-millimeter slides. Q. Yeah. Not well,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	provided. That's Exhibit 32. (Document marked for identification as Exhibit Poulton-32.) MS. O'DELL: Exhibit 33 MR. CHACHKES: Exhibit 32, I'll have to double-check exactly what they are. So if they were sent to me I haven't reviewed them. I think that's what they are, so MS. O'DELL: Well, I'll identify, just they are Imerys Volumes 1 through 3 and J&J Reliance Materials 1 and 2. MR. CHACHKES: Right. That's what the legal assistant put on the spine. MR. FROST: I was going to
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	So he's he's written the paper, he gives a presentation based on the paper. So I wouldn't characterize his paper as a presentation. It was a paper that was presented. Q. That's what the document says, it was a presentation, correct? A. Well, that means he presented the content of the paper at the meeting. Q. And and it's your testimony under oath that he would have had slides in 1984 for a presentation to the Society of Mining Engineers in Colorado? A. Well, in 1984 I was using slides to give presentations, 35-millimeter slides. Q. Yeah. Not well, 35-millimeter maybe, but not PowerPoint slides?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	provided. That's Exhibit 32. (Document marked for identification as Exhibit Poulton-32.) MS. O'DELL: Exhibit 33 MR. CHACHKES: Exhibit 32, I'll have to double-check exactly what they are. So if they were sent to me I haven't reviewed them. I think that's what they are, so MS. O'DELL: Well, I'll identify, just they are Imerys Volumes 1 through 3 and J&J Reliance Materials 1 and 2. MR. CHACHKES: Right. That's what the legal assistant put on the spine. MR. FROST: I was going to say. Leigh, the other thing I want to put on the record, it

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	Page 350		Page 352
1	brought with us today to the	1	A. I don't know that I can
2	deposition.	2	ballpark it very accurately.
3	MS. O'DELL: To in terms	3	Q. Is it more than 50 hours or
4	of the reliance list that was	4	less than 50 hours?
5	provided to us listing Bates	5	A. I would estimate more than
6	numbers, is it is it are	6	50.
7	y'all representing that that's a	7	Q. More than 100 hours or less
8	different group of documents than	8	than 100 hours?
9	what's being disclosed?	9	A. That I don't know.
10	MR. CHACHKES: No, what I'm	10	Q. Is it between 50 and
11	saying is I don't know. And we	11	100 hours to the best of your knowledge?
12	can we can talk later about	12	MR. CHACHKES: Objection.
13	exactly what it is. It's just	13	THE WITNESS: Possibly. I
14	what my paralegal gave me and	14	don't know.
15	that's all I can tell you right	15	BY MS. O'DELL:
16	now.	16	Q. And your retention with
17	MR. FROST: I will say it	17	counsel for J&J was December the 19th,
18	shouldn't be.	18	2018, correct?
19	MS. O'DELL: I understand	19	A. That is the date, yes.
20	that's what you're saying, and	20	Q. And that's the date you
21	that doesn't comfort me a whole	21	agreed to serve as an expert?
22	lot. But I understand.	22	A. Yes.
23	(Document marked for	23	MS. O'DELL: I have nothing
24	identification as Exhibit	24	further.
			D 252
1	Page 351	1	Page 353
2	Poulton-33.) BY MS. O'DELL:	2	MR. CHACHKES: Let's go off
3		3	the record. And then we might have a little bit of redirect.
	Q. Okay. Let me show you what I'm marking as Exhibit Number 33 which is	4	
5	6	5	Maybe not. Okay. Give us a few
6	a supplemental reliance list. And it lists the reports of Wiley, Webb and	6	minutes. THE VIDEOGRAPHER: The time
7	•	7	
8	Dyar.	8	is 7:26 p.m. Off the record.
9	Have you reviewed those? A. Yes.	9	(Short break.) THE VIDEOGRAPHER: We are
10		10	
11	Q. In addition, there are some	11	back on the record. The time is
	invoices that follow the supplemental reliance list. And are those all the	12	7:40 p.m.
13		13	EVAMINIATION
	mi erese um jeu me e presente m m	14	EXAMINATION
15	cube.	15	DV MD CHACHIZEC
	A. So far. I still have other	16	BY MR. CHACHKES:
16 17	invoices to produce.	17	Q. Professor Poulton, you were
	Q. In addition to the hours	18	asked
18	depicted in these two invoices, how many		THE VIDEOGRAPHER:
19	hours have you spent working on this	19	Counselor, your microphone is not
20	case?	20	on.
21	A. I have not added up February	21	BY MR. CHACHKES:
22	and march to date.	22	Q. Professor Poulton, you were
23	Q. Can you give me an	23	asked questions about working with
	approximation?	24	industry for mineral exploration mine

Page 356 Page 354 ¹ design, through that process. Do you ¹ experience, what's your opinion on what ² happened in practice for the mines that ² remember that? J&J sourced its cosmetic talc from? A. I do. Q. What about otherwise, you MS. O'DELL: Object to the ⁵ were asked very specifically about 5 form. directly with industry, I think 6 THE WITNESS: So there --7 consulting directly for them. there are two things you do. One 8 8 What about otherwise? is you leave a buffer zone when 9 A. So rather than going outside you have to be careful about 10 ¹⁰ the university and doing consulting, we inclusion of undesirable rocks in ¹¹ actually brought the consulting projects 11 your process stream. 12 ¹² into our classes, and into our student The other thing with 13 projects. So that way the students would 13 underground mining is you need to 14 14 learn and the students would benefit and leave some supporting rocks 15 15 it gave the faculty the opportunity to because you're -- you're mining 16 ¹⁶ work together on a wide range of out holes and you don't have ¹⁷ different kinds of projects. 17 support for the rock over your So as one example, we have a 18 head. 19 ¹⁹ field methods in geophysical exploration So quite frequently you will ²⁰ and we would have a company basically be 20 leave the undesirable rock behind 21 ²¹ the client for that class and we would as your support. 22 ²² design geophysical surveys with the BY MR. CHACHKES: 23 ²³ class. We would go out and collect the Q. Okay. You recall the charts ²⁴ data. Process the data, produce the ²⁴ in the Cook and Krekeler reports that Page 355 Page 357 ¹ reports, work with the company, ¹ they list documents to support their ² geologists, and geophysicists on overall ² opinions about testing results? ³ interpretation, and choose bore hole A. Yes. ⁴ selections where appropriate. That is 4 MS. O'DELL: Object to the ⁵ one example. form. Another example is we would BY MR. CHACHKES: ⁷ do rock mechanics testing for mines. And Q. If you in your rebuttal did ⁸ we would have those samples in our not mention a document in one of those geomechanics laboratory. So the students charts, to what degree does that mean you ¹⁰ had the opportunity to work with real agreed with their take on the document? 11 11 samples and collect the data, write the MS. O'DELL: Object to the 12 reports, and work alongside the company 12 form. 13 on what those test results meant and were 13 THE WITNESS: It does not ¹⁴ being used for. Those are two examples. 14 mean that I agreed with their 15 15 conclusions. It -- it simply Q. You talked a little bit 16 ¹⁶ about the possibility that material from means that that wasn't one of the 17 outside the talc body might be mined. Do documents I selected to examine. 18 you recall that? BY MR. CHACHKES: 19 19 MS. O'DELL: Object to the Q. And you were asked a lot of 20 questions about general principles in form. 21 mining. To what degree are there any --THE WITNESS: I do. are any of those general principles

of the documents in this case and your

Q. Okay. Based on your review

²² BY MR. CHACHKES:

applicable to a specific mine?

MS. O'DELL: Object to the

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	Page 358		Page 360
1	form.	1	A. So I was reading a quote
2	THE WITNESS: So you you	2	from Pooley's report.
3	take those general principles and	3	Q. What page of your report?
4	then you look at the context of	4	A. Of my report is Page 7.
5	your specific mining situation and	5	Q. Page 7. And just so I
6	determine how you modify those	6	can can follow. Did you read a
7	general principles. So every mine	7	portion of the quote that appears at the
8	has potentially unique situations	8	top of Page 7?
9	that you have to take into	9	A. Yes.
10	account.	10	Q. If you'll go to Exhibit 8,
11	BY MR. CHACHKES:	11	which is the Pooley report. Exhibit 8.
12	Q. What is your understanding	12	Are you there?
13	of the conclusion of Pooley's testing in	13	A. I have Exhibit 8.
14	Italy?	14	Q. And if you'll turn to the
15	A. So my understanding of	15	last page of the exhibit. When you
16	Pooley's testimony, and it's a direct	16	the quote in your report actually leaves
17	quote from his report, "No amphibole or	17	out some sentences on this page.
18	chrysotile material was detected in any	18	You you state in your
19	of the numerous powders examined."	19	report, "Particles formed from the
20	MS. O'DELL: Where excuse	20	amphibole mineral found at the mine were
21	me. Doctor, if you don't mind, if	21	hardly fibers of character, and the
22	you're quoting that, would you	22	majority of the tremolite breaking to
23	just tell me what page you are on?	23	give compact particles."
24	THE WITNESS: 7 of my	24	And then you don't quote the
	Page 359		Page 361
1	report.	1	next sentence: "Those" "those fibers
2	MS. O'DELL: What's the page	2	formed were short and had a very large
3	on the Pooley document?	3	diameter with" "when compared to
4	THE WITNESS: I have the	4	commercial varieties of asbestos."
5	quote in the J&J number, I don't	5	Did I read that directly?
6	have the specific page number.	6	MR. FROST: Objection.
7	MR. CHACHKES: Okay. So no	7	THE WITNESS: I haven't
8	further questions.	8	found where you are exactly.
9	MS. O'DELL: Okay. I have a	9	BY MS. O'DELL:
10	few questions.	10	Q. The last page of the report.
11		11	Are you there?
12	EXAMINATION	12	A. I see the last page.
13		13	Q. And it's Bates Number 475?
	BY MS. O'DELL:	14	A. 475.
14	DI MINI O DELLE		
14 15	Q. You mentioned the Pooley	15	Q. And you quoted in your
15 16	Q. You mentioned the Pooley report. What page were you referring to?	16	report from the second paragraph at the
15 16 17	Q. You mentioned the Pooleyreport. What page were you referring to?A. We could open up the Pooley	16 17	report from the second paragraph at the end, correct?
15 16 17 18	Q. You mentioned the Pooley report. What page were you referring to? A. We could open up the Pooley report and find the exact page number.	16 17 18	report from the second paragraph at the end, correct? A. Yes.
15 16 17 18 19	 Q. You mentioned the Pooley report. What page were you referring to? A. We could open up the Pooley report and find the exact page number. Q. No. You're you 	16 17	report from the second paragraph at the end, correct? A. Yes. Q. And Dr. Pooley noted that
15 16 17 18 19 20	Q. You mentioned the Pooley report. What page were you referring to? A. We could open up the Pooley report and find the exact page number. Q. No. You're you mentioned you quoted from your report,	16 17 18 19 20	report from the second paragraph at the end, correct? A. Yes. Q. And Dr. Pooley noted that there were fibers within the talc,
15 16 17 18 19 20 21	Q. You mentioned the Pooley report. What page were you referring to? A. We could open up the Pooley report and find the exact page number. Q. No. You're you mentioned you quoted from your report, correct?	16 17 18 19 20 21	report from the second paragraph at the end, correct? A. Yes. Q. And Dr. Pooley noted that there were fibers within the talc, correct?
15 16 17 18 19 20 21 22	Q. You mentioned the Pooley report. What page were you referring to? A. We could open up the Pooley report and find the exact page number. Q. No. You're you mentioned you quoted from your report, correct? A. Yes.	16 17 18 19 20 21 22	report from the second paragraph at the end, correct? A. Yes. Q. And Dr. Pooley noted that there were fibers within the talc, correct? MR. LOCKE: Objection to
15 16 17 18 19 20 21 22 23	Q. You mentioned the Pooley report. What page were you referring to? A. We could open up the Pooley report and find the exact page number. Q. No. You're you mentioned you quoted from your report, correct? A. Yes. Q. And what what was the	16 17 18 19 20 21 22 23	report from the second paragraph at the end, correct? A. Yes. Q. And Dr. Pooley noted that there were fibers within the talc, correct? MR. LOCKE: Objection to form.
15 16 17 18 19 20 21 22 23	Q. You mentioned the Pooley report. What page were you referring to? A. We could open up the Pooley report and find the exact page number. Q. No. You're you mentioned you quoted from your report, correct? A. Yes.	16 17 18 19 20 21 22	report from the second paragraph at the end, correct? A. Yes. Q. And Dr. Pooley noted that there were fibers within the talc, correct? MR. LOCKE: Objection to

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	Page 362		Page 364
1	fibers are not asbestos. They are	1	spent for
2	not identified as asbestos.	2	MS. O'DELL: I had
3	BY MS. O'DELL:	3	14 minutes left, Tom.
4	Q. Then he goes on to say, "The	4	MR. LOCKE: Yeah, I think
5	Italian talc" this is the next	5	based on the way you did timing
6	paragraph.	6	for the prior depositions, I think
7	"The Italian talc contains	7	we're already over.
8	observable quantities of chlorite and	8	MS. O'DELL: No, I don't
9	carbonate minerals and could contain any	9	I I disagree with that.
10	one of the following minerals in minor	10	BY MS. O'DELL:
11	amounts," and he includes in that	11	Q. Ma'am, do you remember my
12	tremolite, correct?	12	question?
13	A. And tremolite is not	13	A. So tremolite asbestos is not
14	asbestos.	14	the same as tremolite.
15	Q. It can be asbestos, correct?	15	Q. Tremolite can occur as a
16	MR. FROST: Objection to	16	non-asbestiform mineral and also an
17	form.	17	asbestiform mineral, true?
18	MR. CHACHKES: Objection.	18	A. So tremolite asbestos is not
19	THE WITNESS: That's not	19	tremolite.
20	what's stated here.	20	MR. CHACHKES: Okay. So by
21	BY MS. O'DELL:	21	the way, this let's go off the
22	Q. Tremolite can be asbestiform	22	record just for a moment. Because
23	or non-asbestiform, correct?	23	it's my understanding that you
24	Is that a true statement?	24	y'all in your depositions limited
	Page 363		Page 365
1	A. Tremolite asbestos is the	1	our redirect our recross to the
2	asbestos mineral.	2	time of redirect without regard to
3	Q. That's not what I asked you.	3	the amount of time that was
4	I asked you if tremolite can occur in	4	leftover from the
	non-asbestiform and an asbestiform habit,	5	MS. O'DELL: That that's
	true?	6	not
7	A. So so	7	MR. LOCKE: True.
8	Q. Is that true?	8	MR. CHACHKES: That is true.
9	A tremolite	9	MS. O'DELL: Jack, you know
10	Q. Is that true, ma'am?	10	that's not true. That is
11	A can be	11	absolutely not true. That we
12	MR. CHACHKES: Please don't	12	allowed the time that remained was
13	badger the witness. Let her	13	added to your redirect, any
14	answer.	14	additional
15	MS. O'DELL: She needs to	15	MR. CHACHKES: That's why I
16	answer my question. I just asked	16	wanted to go off the record. Let
	her a simple question that's	17	me just clarify
17	ner a simple question that s	18	THE VIDEOGRAPHER: Yeah,
17 18	noncontroversial		THE VIDEOUNALHEN. I Call,
	noncontroversial MR CHACHKES: So let her		
18 19	MR. CHACHKES: So let her	19	we're still on the record, so
18 19 20	MR. CHACHKES: So let her let her answer, please.	19	we're still on the record, so MR. CHACHKES: Yeah.
18 19	MR. CHACHKES: So let her let her answer, please. MR. LOCKE: Just for the	19	we're still on the record, so MR. CHACHKES: Yeah. THE VIDEOGRAPHER: You want
18 19 20 21 22	MR. CHACHKES: So let her let her answer, please. MR. LOCKE: Just for the record, we're over the time	19 20 21 22	we're still on the record, so MR. CHACHKES: Yeah. THE VIDEOGRAPHER: You want to go off?
18 19 20 21	MR. CHACHKES: So let her let her answer, please. MR. LOCKE: Just for the	19 20 21	we're still on the record, so MR. CHACHKES: Yeah. THE VIDEOGRAPHER: You want

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1	this is an important point, right?	1	that was in the binders that were
2	MS. O'DELL: We're off the	2	
3	record?	3	website that you referenced in your
4	THE VIDEOGRAPHER: The time	4	
5	is 7:50 p.m. We're off the	5	OneMine.org?
6	record.	6	A. Yes.
7	(Brief pause.)	7	Q. And is that the web page
8	THE VIDEOGRAPHER: We are	8	which you relied on in reaching your
9	back on the record. The time is	9	opinions in this case?
10	7:53 p.m.	10	MR. CHACHKES: Objection.
11	BY MS. O'DELL:	11	THE WITNESS: I used this
12	Q. You talked about with	12	website to search for documents.
13	counsel for J&J classes. I think you	13	BY MS. O'DELL:
14	mentioned field methods was one class	14	Q. Is that the page that
15		15	
16	where there was some engagement with	16	± -
17	industry and students worked on projects	17	you reviewed and relied on in reaching
18	that involved geophysical exploration,	18	your opinions?
19	surveys, et cetera.	19	MR. CHACHKES: Objection.
20	Do you call recall that?	20	THE WITNESS: This page is a
21	A. That was one example.	21	search box.
22	Q. And did any of those	22	BY MS. O'DELL:
23	projects involve talc mines? A. No.	23	Q. What searches did you
24		24	perform using one vime.org.
24	Q. You also mentioned a class	24	A. So I searched for talc. I
	Page 367		Page 369
1	involving rock mechanic testing in a lab.	1	searched for sampling. I believe I
2	A. Yes.	2	searched for asbestos.
3	Q. Did that type of testing	3	Q. Any other searches?
4	that was done in that lab involve TEM?	4	A. Possibly. I don't remember.
5	A. TEM is not a rock mechanics	5	Q. You also testified
6	instrument.	6	regarding I think you used the the
7	Q. I would what is rock	7	term "buffer."
8	mechanics, just to make sure I	8	You were asked the question:
9	understand?	9	"Based on your review of the documents in
10	A. Rock mechanics is the	10	this case and your experience, what's
11	engineering strength of rocks.	11	your opinion on what happened in practice
12	Q. So tensile strength?	12	for the mines that sourced that J&J
13	A. Compressive strength,	13	sourced its cosmetic talc from?"
14	tensile strength.	14	Do you remember that
15	Q. Any evaluation by	15	question?
16	microscopy?	16	A. Is that a question that Alex
17	A. I don't believe so for	17	asked?
18	undergraduate testing.	18	Q. Correct.
19	(Document marked for	19	A. Okay.
20	identification as Exhibit	20	Q. And and you testified
21	Poulton-34.)	21	that about a buffer zone that was left
22	BY MS. O'DELL:	22	in the mining process used to source J&J
23	Q. Let me show you what I've	23	tare.
24	marked as Exhibit 34. It's something	24	What data are you relying on

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	Page 370		Page 372
1	regarding the use of a buffer zone?	1 2	CEDITIEI CATE
2	A. So can you read the exact	3	CERTIFICATE
3	question?	4	
4	Q. "Based on your review of the	5	I HEREBY CERTIFY that the
5	documents in this case and your		witness was duly sworn by me and that the
	experience, what's your opinion on what	0	deposition is a true record of the testimony given by the witness.
	happened in practice for the mines that	7	testimony given by the witness.
	J&J sourced its cosmetic talc from?"		It was requested before
9	And I want to know you	8	completion of the deposition that the
10	testified to a buffer zone, and I want to	9	witness, MARY POULTON, Ph.D., have the opportunity to read and sign the
	know what you're relying on to state that		deposition transcript.
	there was a buffer zone used.	10	
13	A. So I believe in reading	12	
14	through the documents, they talked about		MICHELLE L. GRAY,
	staying away from the black wall and	13	A Registered Professional
	, , ,	14	Reporter, Certified Shorthand
	using that as the boundary. And they		Reporter, Certified Realtime Reporter and Notary Public
	also talked about leaving rock behind for	15	Dated: March 19, 2019
	support.	16	
19	Q. And that was in underground	17 18	(The foregoing certification
	mines?	19	of this transcript does not apply to any
21	A. Underground.	20	reproduction of the same by any means,
22	MS. O'DELL: Okay. I have	21 22	unless under the direct control and/or supervision of the certifying reporter.)
23	nothing further. Thank you.	23	supervision of the certifying reporter.)
24	THE VIDEOGRAPHER: This	24	
	Page 371		Page 373
1	marks the end of today's	1	INSTRUCTIONS TO WITNESS
2	deposition. The time is 7:58 p.m.	2	
3	(Excused.)	3	Please read your deposition
4	(Deposition concluded at	4	over carefully and make any necessary
5	approximately 7:58 p.m.)	5	corrections. You should state the reason
6	1 ,	6	in the appropriate space on the errata
7		7	sheet for any corrections that are made.
8		8	After doing so, please sign
9		9	the errata sheet and date it.
10		10	You are signing same subject
11		11	to the changes you have noted on the
12		1	errata sheet, which will be attached to
13		13	your deposition.
14		14	It is imperative that you
15		15	return the original errata sheet to the
16		16	deposing attorney within thirty (30) days
17		17	of receipt of the deposition transcript
18		18	by you. If you fail to do so, the
19		19	deposition transcript may be deemed to be
20		20	accurate and may be used in court.
21		21	
22		22	
23		23	
24		24	

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Page 374 Page 376	
1	¹ LAWYER'S NOTES
ERRATA	² PAGE LINE
2	3
3	
	4
⁴ PAGE LINE CHANGE	5
5	6
6 REASON.	
KL/ISOIV.	7
7	8
8 REASON:	9
9	
10 REASON.	10
TELLISOTT.	11
	12
12 REASON:	13
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	14
TEMBOTT.	15
15	16
REASON:	
117	17
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18 REASON:	19
19	
20 REASON:	20
21	21
	22
22 REASON:	
23	23
24 REASON:	24
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² ACKNOWLEDGMENT OF DEPONENT	
3	
4 I, , do	
5 hereby certify that I have read the	
⁶ foregoing pages, 1 - 376, and that the	
⁷ same is a correct transcription of the	
8 answers given by me to the questions	
9 therein propounded, except for the	
¹⁰ corrections or changes in form or	
¹¹ substance, if any, noted in the attached	
12 Errata Sheet.	
13	
14	
15	
¹⁶ MARY POULTON, Ph.D. DATE	
17	
18	
¹⁹ Subscribed and sworn	
to before me this	
20 day of 20	
²⁰ day of, 20	
22	
Notary Public	
24	